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Nasturtiums

Double Gleam Hybrids

This is a collection of gorgeously colored, double, sweet-scented flowers of dazzling beauty.

One of the most important introductions of the plant-world, and one that is assured universal popularity. Pkt. 25 cts.

Also available in the two separate colors listed below:

•

Double Golden Gleam. Golden yellow. Pkt. 10 cts.

Double Scarlet Gleam. Fiery scarlet. Gold Medal All-American Selection, 1934. Pkt. 25 cts.

CATALOGUE

• 48 •

Diamond Jubilee

75th Anniversary

GRIFFITH & TURNER CO.

205-215 N. Paca St. (Branch: 30 S. Calvert St.) BALTIMORE, MD.

TELEPHONE CAL. 2300

1860
1935

Keep your Lawn growing luxuriantly by applying our Special Grass Fertilizer each spring and fall

5 lbs. 35 cts.
10 lbs. 60 cts.
25 lbs. $1.25
50 lbs. $2.00
100 lbs. $3.50

Grass Seed Mixtures

GRIFFITH & TURNER CO.'S IMPERIAL TURF MIXTURE. This superb quality of grass seed is correctly proportioned to give that Old English effect and is noted for its complete adaptability to variations in soil, climate, and other conditions. Weighs over 25 pounds to the measured bushel, which is an exceptional weight for lawn seed, and heavy seed means pure seed of highest quality free from weeds and chaff. Lb. 55 cts.; 3 lbs. $1.55; 5 lbs. $2.50; 10 lbs. $4.75; 20 lbs. $9; 100 lbs. $42.

GRIFFITH & TURNER CO.'S EVERGREEN LAWN GRASS. We recommend this for large areas and on small places where the extreme fineness of the turf is not so important. It is composed of fine recleaned grasses and White Dutch Clover of the highest purity and vitality, carefully proportioned to give a green lawn throughout the summer. Weighs 22 pounds to the measured bushel. Lb. 40 cts.; 3 lbs. $1.15; 5 lbs. $1.85; 10 lbs. $3.60; 20 lbs. $7; 100 lbs. $32.50.

GRIFFITH & TURNER CO.'S BENT FORMULA. This is composed of varieties which will make a permanent, luxuriant turf, finer in texture than a lawn of the ordinary type. Containing a liberal proportion of Creeping Bent Grass, it is deep, rich green in color and produces the effect of a soft rug, enduring from early spring until covered by snow. Weighs 28 pounds to the measured bushel. Lb. 75 cts.; 3 lbs. $2.15; 5 lbs. $3.50; 10 lbs. $6.75; 20 lbs. $13; 100 lbs. $62.50.

GRIFFITH & TURNER CO.'S TERRACE SOD MIXTURE. A mixture of grasses that will produce strong, spreading roots, withstanding drought and sun, and thriving on shallow soils. If slope is very severe, sow along with each pound of seed 1 quart of oats for every 100 square feet of lawn, to help prevent washing by heavy rains. Lb. 55 cts.; 3 lbs. $1.55; 5 lbs. $2.50; 10 lbs. $4.75; 20 lbs. $9; 100 lbs. $42.

GRIFFITH & TURNER CO.'S SHADY NOOK GRASS. A mixture of the shade-tolerant grasses, properly blended, that will do well under trees and other shady nooks in the garden. Sow seed at the rate of one pound to every 200 square feet, and apply lime, 50 pounds to every 1,000 square feet. In very stubborn cases it may be necessary to renovate for several years to obtain a rich green sward. If so, add lime each fall, as directed above, and sow seed at the rate of one pound to every 300 square feet. Lb. 55 cts.; 3 lbs. $1.55; 5 lbs. $2.50; 10 lbs. $4.75; 20 lbs. $9; 100 lbs. $42.

GRIFFITH & TURNER CO.'S SEASHORE LAWN GRASS. A mixture of grasses that are especially suitable for lawns at the seashore. In preparing the soil, work in a liberal amount of sheep manure and top-dress with about 4 inches of good top soil, as grasses will not grow well in pure sand. Lb. 50 cts.; 3 lbs. $1.40; 5 lbs. $2.25; 10 lbs. $4.25; 20 lbs. $8.25; 100 lbs. $33.50.

PARK LAWN GRASS (Low-priced Mixture). A mixture of Lawn Grass less expensive than our Evergreen. Suitable where a fine lawn is not required. Lb. 30 cts.; 100 lbs. $25.

Making and Maintaining a Lawn

Early spring and late summer are most favorable for making or renovating a lawn. Dig the soil to a depth of 6 inches, and thoroughly pulverize same. Apply Griffith & Turner Co.'s Grass Fertilizer at the rate of 100 pounds per 2,000 square feet, and rake in well. Sow one of our Special Lawn Formulas at the rate of 1 pound for every 200 square feet, and then rake very lightly, after which roll. Under favorable conditions the grass should germinate in about 10 days. Do not sprinkle a new lawn with water for the first three weeks, unless the seeding is followed by very hot, dry weather, but after this time it should be watered as required. An application of our Grass Fertilizer each year, using half the quantity suggested above, will keep your grass in a healthy condition.

WHITE DUTCH CLOVER. ¼lb. 20 cts.; ½lb. 30 cts.; lb. 50 cts.; 10 lbs. $4.50.

Separate varieties of grasses described on page 40

FERTILIZER FOR FARM LAWN AND GARDEN

ESSKAY QUALITY PLANTFOOD

A complete organic fertilizer consisting of blood, bonemeal, tankage and potash scientifically blended for Flowers, Lawns, Vegetables, Trees and Shrubs. It is economical, NON BURNING, and pleasant to use. It builds up the soil and leaves no acid residue. Approved and recommended by Florists, Nurserymen, and Gardeners everywhere. **Prices:**

100-lb. Bag	**$3.00**	10-lb. Bag	**$0.65**
50-lb. Bag	**2.00**	2-lb. Bag	**.20**
25-lb. Bag	**1.25**		

LOMA

1-lb. Can	**$0.15**	25-lb. Bag	**$1.50**
5-lb. Can	**.50**	50-lb. Bag	**2.50**
10-lb. Bag	**.85**	100-lb. Bag	**4.00**

G. & T. CO.'S GARDEN FERTILIZER

A complete fertilizer for Flowers, Shrubbery, Vegetables, etc. Use at the rate of 1 pound to 50 square feet.
5 lbs. **35c**, 10 lbs. **60c**, 25 lbs. **$1.25**, 50 lbs. **$2.00**, 100 lbs. **$3.50.**

G. & T. CO.'S GRASS FERTILIZER

A well balanced fertilizer that will keep your lawn in a healthy condition. For new lawns use 100 lbs. for every 2,000 square feet. For renovating old lawns use 100 lbs. for every 4,000 square feet, mixed with several times its bulk of top soil.
5 lbs, **35c**, 10 lbs. **60c**, 25 lbs. **$1.25**, 50 lbs. **$2.00**, 100 lbs. **$3.50.**

G. & T. CO.'S ROSE FOOD

A fertilizer specially prepared for the proper growth of Roses and for the control of root pests. Use a trowelful, thoroughly mixed with the soil, before setting out new bushes and apply a liberal dusting each Spring and Fall.
5 lbs. **50c**, 10 lbs. **85c**, 25 lbs. **$1.50**, 50 lbs. **$2.50**, 100 lbs. **$4.00.**

SOFT GROUND BONE—The old standby. Made from softer material than the regular ground bone. Contains some meat and blood. Fine for lawns, roses, shrubbery, and flowers.
Price, 5 lbs, 25c, 10 lbs, 45c, 25 lbs, $1.00, 50 lbs. $1.50, 100 lb. bag $2.50, 167 lb. bag $4.00.

PURE BONE MEAL—A good article for lawns, shrubbery, etc.
Price, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. $1.25, 50 lbs. $1.75, 100 lbs. $2.50, 167 lb. bag $4.10.

PEERLESS FERTILIZER—Fine for spring and summer crops, Peas, Beans, Corn, etc. **Bag of 167 lbs. $2.50.**

RELIABLE CROP GROWER—For Wheat, Grass, Corn and Tomatoes. **Bag of 167 lbs. $2.75.**

SPECIAL POTATO FERTILIZER—Made especially for Potatoes and Tomatoes, being high in Potash and Phosphoric Acid. **Bag of 167 lbs. $3.00.**

TRUCKER'S SPECIAL—A high grade complete mixture, for trucker's use in growing vegetables. **Bag of 167 lbs. $3.00.**

DRIED BLOOD—Fine for greenhouse potted plants, etc. Must be used sparingly and carefully. **5 lbs., 40c, 10 lbs. 75c, 25 lbs, $1.50, 50 lbs. $2.25, 100 lbs. $4.00.**

NITRATE OF SODA—A great stimulant. Used for top dressing lawns. **5 lbs. 30c, 10 lbs. 50c, 25 lbs. $1.00, 50 lbs. $1.75, 100 lbs. $2.75.**

SULPHATE OF AMMONIA—Used for same purpose as above, but slower and stronger. **5 lbs. 30c, 10 lbs. 50c, 25 lbs. $1.00, 50 lbs. $1.75, 100 lbs. $2.75. Ask for price in ton lots.**

LAND PLASTER—In bags of 200 lbs. each, $2.25.

HIGH GRADE ACID PHOSPHATE—Bags of 167 lbs. $2.00.

MURIATE OF POTASH

Lb. 10 cents, 10 lbs. 50 cents.

KAINIT

Lb. 5 cents, 10 lbs. 40 cents.

ALUMINUM SULPHATE

Especially for Rhododendrons and Azaleas, or, where an acid condition of the soil is desired.
Lb. 10c, 5 lbs. 30c, 10 lbs. 50c, 100 lbs. $3.75.

COW MANURE (BoVUNG)

Dried fertilizer prepared and put up expressly for Flowers, Lawn and Garden.
5 lbs. 30c, 10 lbs. 50c, 25 lbs. $1.00, 50 lbs. $1.75, 100 lbs. $3.00.

VIGORO

The SQUARE MEAL *that assures rich* BEAUTY *in Lawns and Flowers*

Vigoro nourishes plants properly because it is the complete plant food, containing all of the elements scientists have proved plants must get from the soil. Use at the rate of 1 lb. to 50 sq. ft.

Prices

100-lb. bag	**$4.00**
50-lb. bag	**2.50**
25-lb. bag	**1.50**
10-lb. bag	**.85**
5-lb. pkg.	**.50**
12-oz. pkg.	**.10**

SOIL-PREP

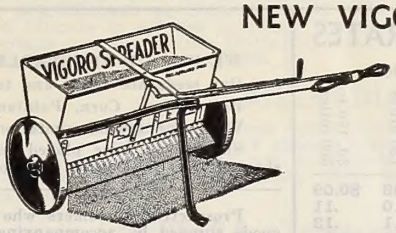
Soil-Prep, a scientific soil conditioner, rich in humus and plant food value. Will texturize light sandy and heavy clay soils.

5-lb. bag	**$0.30**	50-lb. bag	**$1.75**
10-lb. bag	**.50**	100-lb. bag	**2.50**
25-lb. bag	**1.00**		

HYPER-HUMUS

Fine for Lawns, Shrubbery and Flowers. It conserves moisture, puts organic matter in the soil and cultivates bacteria. **100 lb. bag $2.00, 500 lbs. $8.75, 1,000 lbs. $15.00.**

NEW VIGORO SPREADER



Little Vigoro, 14-in.	**$1.20**
Model B Vigoro, 14-in.	**2.70**
Junior Vigoro, 16-in.	**5.60**
Standard Vigoro, 24-in.	**10.55**
Special Vigoro, 36-in.	**17.25**

Use a Vigoro Spreader for results.

PULVERIZED SHEEP MANURE HAS NO RIVAL

Valuable in a run-down city garden, as it adds humus and vegetable matter which are essential for all vegetation. It may also be used at the rate of 40 to 50 pounds to every 1,000 square feet in a dry form, or 500 to 1,000 pounds per acre.

Makes the richest and safest liquid manure, using 1 pound to 5 gallons of water once a week.

For Greenhouse Plants mix one part to about 10 parts of soil.

Price, 5 lbs. 25c, 10 lbs. 45c, 25 lbs. 85c, 50 lbs. $1.25, 100 lbs, $2.00. Special price in one-half ton, tons and carload.

HYDRATED LIME

For sweetening soils and improving the mechanical condition of the soil. It is indispensable for the growth of all Clover, Alfalfa and Lawn Grasses.
10 lbs. 20c, 50 lb. bags 50c. Special price in quantity.

ADCO

Artificial Manure is a powder, which when mixed with almost any non-woody vegetable waste, such as straw, leaves, weeds, and kept moist, gradually converts the mass into real manure.

The refuse should be arranged in layers, each layer being thoroughly saturated with water and then sprinkled with Adco in the proportion of 1 pound Adco to 25 pounds refuse, when dry. 25 pounds Adco is enough for 12 large wheelbarrow loads of garden waste, making ½ ton manure. **Price, $2.00.**

150 pounds Adco is enough for a bed 10x10 feet deep and 6 feet high, will make about 3 tons manure. **Price, $10.50.**

IMPORTED GRANULATED PEAT MOSS

Granulated Peat Moss is fine for garden mulch, as it conserves moisture.

When incorporated in the soil, it promotes growth and supplies humus, which is very essential for growing plants.

When used in connection with fertilizers, flowers and plants should grow very luxuriantly.

5 lbs. **30c**—25 lbs. **$1.00**—½ Bale **$1.50**—Bale **$2.25.**

LEAF MOULD

Fine for mulching Rhododendrons and Azaleas. For Window Boxes and sowing flower seeds, mix with good top soil.
Peck 50 cents, ½ bushel 90 cents, bushel $1.50.
In 5-bushel lots, $1.00 per bushel.

POTTING SOIL FOR WINDOW BOXES AND STARTING CUTTINGS—Peck 30 cents, ½ bushel 60 cents, 1 bushel $1.00.

Griffith & Turner Co., Baltimore, Md.

1935 ANNUAL CATALOGUE 1935

Quality Goods **No. 48** **Best Prices**

It gives us great pleasure to present our 1935 Catalogue. For over seventy-five years we have been keeping step with the changing methods of doing business.

Your loyalty to us has made this possible, and we want to do everything to show our appreciation of the confidence you have placed in us.

It has always been a pleasure to serve you, and we pledge to you our utmost endeavor, that this confidence may long continue.

If you cannot secure the within goods from your local dealer, kindly write to us direct.

GRIFFITH & TURNER COMPANY.

OUR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

If for any reason you change your postoffice address, please advise us, giving your old address as well as your new one, stating which is the old and new one.

By writing out your order on the Order Sheet sent with each Catalogue you will greatly facilitate our work. Extra Order Sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

PARCEL POST RATES

Weight, in pounds	ZONES Local	1st, up to 50 miles	2d, 50 to 150 miles	3d, 150 to 300 miles
1	$0.07	$0.08	$0.08	$0.09
2	.08	.10	.10	.11
3	.08	.11	.11	.13
4	.09	.12	.12	.15
5	.09	.13	.13	.17
6	.10	.14	.14	.19
7	.10	.15	.15	.21
8	.11	.16	.16	.23
9	.11	.17	.17	.25
10	.12	.18	.18	.27
11	.12	.19	.19	.29
12	.13	.21	.21	.31
13	.13	.22	.22	.33
14	.14	.23	.23	.35
15	.14	.24	.24	.37
16	.15	.25	.25	.39
17	.15	.26	.26	.41
18	.16	.27	.27	.43
19	.16	.28	.28	.45
20	.17	.29	.29	.47
21	.17	.30	.30	.49
22	.18	.32	.32	.51
23	.18	.33	.33	.53
24	.19	.34	.34	.55
25	.19	.35	.35	.57

Parcels weighing less than 10 pounds measuring over 84 inches but not more than 100 inches in length and girth combined are subject to a minimum charge equal to that for a 10-pound parcel for the zone to which addressed.

TO COUNTRY MERCHANTS

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, Potatoes, Onion Sets, etc., in bulk, at lowest wholesale rates.

Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

Prospective Customers who are not rated in the Commercial Agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory reference. Baltimore references preferred.

NOTICE—We make a specialty of quoting on complete outfits. SEND FOR PRICES.

Filling Orders.—Every order is filled and forwarded as promptly as possible, but if not duly received please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags, 2 bushel 30c each.

HOW TO REMIT.—Remittances should be made by draft, Express Money Order, P. O. Money Order or Registered Letter.

We deliver by **PARCEL POST FREE** to any Postoffice in the United States all cash orders for Flower and Garden Seeds, up to ¼ lb.

No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Field Seeds in large quantities and All Merchandise, consult table at left.

ON EVERY ORDER be sure to **SIGN YOUR NAME** and give your address **PLAINLY**, as we frequently receive orders lacking either or both; also give full shipping instructions. State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners and all purchasers of Seeds in large quantities should submit us a list of their wants and we will name them special prices.

WEIGHT OF AGRICULTURAL SEED PER BUSHEL AND QUANTITY USUALLY SOWN PER ACRE

Weight per Bushel	Variety	Time to sow	Quantity per Acre
48 lbs.	Barley,	Aug. to Nov.	96 lbs.
48 "	Buckwheat,	June to Aug. 15	1 bu.
60 "	Clover,	Alfalfa, March, April and Aug. to Oct. 15	20 to 25 lbs.
60 "	Clover,	Alsike, Feb., March and Aug.	8 lbs.
60 "	Clover,	Crimson, July to Sept.	15 lbs.
60 "	Clover,	Sweet, March and April, Aug. to Sept.	15 to 20 lbs.
60 "	Clover,	Red, Feb. and March	10 to 12 lbs.
60 "	Clover,	White, Aug. and Sept., March and April (alone)	6 lbs.
56 "	Corn,	for soiling, May	1 to 2 bus.
20 "	Evergreen Lawn Grass,	March and April, Aug. and Sept.	4 bus.
56 "	Field Corn	(in hills), May	4 to 6 qts.
50 "	German Millet,	May to Aug. 1st	50 to 75 lbs.
14 "	Kentucky Blue,	April and May, Aug. and Sept.	42 lbs.
14 "	Orchard Grass,	April and May, Aug. and Sept.	42 lbs.
32 "	Oats,	Spring, March and April	75 lbs.
32 "	Oats,	Winter, March, Aug., Sept., Oct.	50 to 75 lbs.
14 "	Red Top,	unhulled, April, May, Aug. and Sept.	42 lbs.
32 "	Red Top,	Fancy, April, May, Aug. and Sept.	12 lbs.
60 "	Rape,	Feb. to Aug.	4 to 6 lbs.
56 "	Rye,	Aug. to Nov.	60 to 80 lbs.
50 "	Sorghum	(for Fodder), May and June	50 lbs.
45 "	Timothy,	alone, April, May, Aug., Sept.	20 lbs.
.... "	Timothy,	with other grasses	12 lbs.
		(Together for an acre: Red Clover, 6 lbs.; Timothy, 12 lbs.)	
60 "	Wheat,	Sept. to Nov. 15	100 to 120 lbs.
60 "	Vetch,	Winter, Aug. to Nov. (broadcast)	30 lbs.

INSTRUCTIONS FOR PLANTING

Sow seed indoors for early plants of Cabbage, Cauliflower, Egg Plant, Pepper, Lettuce and Tomato, February 20th to March 10th.

Set early plants outside, of Cabbage, Lettuce and Cauliflower, April 1st to April 30th.

Plant in the outside land, where they are to remain, Potatoes, Peas and Onion Sets, March 17th to May 1st.

Sow on the outside, where they are to remain, Asparagus Seed, Asparagus Roots, Beet, Onion Seed, Parsnip, Parsley, Lettuce, Kale, Turnip, Radish, Spinach, Carrot, Salsify, also Celery seed for plants, April 1st to May 15th.

Set outside plants of Tomato, Pepper, Egg Plant, May 20th to June 20th.

Plant outside, Sugar Corn, Muskmelon, Cucumber, Squash and Pumpkin, May 15th to July 1st.

Watermelon, May 20th to June 20th.

Plant outside all kinds of String Beans and Stringless Beans, May 15th to August 15th.

Lima Beans, May 15th to June 20th.

For late crops of Kale, Turnip and Spinach, sow August 10th to Sept. 10th.

For plants for late crops of Cabbage, Borecole and Brussels Sprouts, sow seed May 15th to May 25th.

"We give no warranty, expressed or implied, as to description, purity, productiveness or any other matter of any seeds, or bulbs, we sell, and we will not be in any way responsible for them."

G. & T. CO'S FLOWER SEEDS OF QUALITY

In presenting this list of Flower Seeds to our patrons we wish to call attention to the many new varieties we have included this year. Fine flowers can be grown only from choice new seed and infinite care has been taken to secure the finest strains available in the world.

ALL FLOWER PLANTS MAY BE DIVIDED INTO THREE DISTINCT CLASSES

ANNUALS grow from seed, produce flowers and die the same season.

BIENNIALS require two seasons to complete their life, seldom blooming the first year. They grow from seed the first season, produce flowers the second and then die.

PERENNIALS as a rule do not bloom until the second year, but continue to live over a varying period of years. Some last a lifetime and others may perish within three, four or five seasons. There are numerous Perennials that will bloom the first year from seed, but because they are not hardy in Northern Gardens they are generally accepted as Annuals.

(A)—Seeds of Annuals are sown in the Spring in the open ground as soon as the weather permits, or they may be started indoors in seed flats in the late winter and transplanted into the garden when warm weather has arrived.

(B)—Biennials and Perennials (H. P.) are commonly sown outdoors in June, July or August, the plants being thinned to prevent crowding and then transplanted in Autumn or Spring to the garden where they are intended to flower. Care should be taken to cover the seed only to a depth equal to three times their own diameter, and very fine seed are best mixed with a little sand and then broadcast and pressed into the soil, no attempt should be made to cover very fine seed. Do not add fertilizer to soil for starting seeds, but apply it later when plants are partly grown.

NOVELTIES IN FLOWER SEEDS

ANAGALLIS (Pimpernel)

COERULEA (A)—Completely covered during the greater part of the summer with beautiful gentian-blue flowers. The flowers close on the approach of bad weather, and open wide when clear weather is due. Sometimes called "Poor Man's Weatherglass. 10 in. high. **Packet 10c, ¼ Ounce, 35c.**

ANTIRRHINUM (Snapdragon) NEW RUST PROOF (A)

California De Luxe Mixture—**Packet 25c, 5 Packets, $1.00.**

ASTERS—Midseason Blooming (A)

CALIFORNIA GIANTS, IMPROVED—This beautiful Aster stands at the head of the list not only for Florist's use, but also for private gardens. The plants grow 2½ to 3 ft. high, with long stems bearing large curled and interlaced flowers 5 in. or more across, blooming from late July until frost.

Apple Blossom, Light Blue, Deep Rose, Dark Purple, Carmine, White, Finest Mixed. Each Color, Packet 15c, ⅛ Ounce 60c. Mixed, Packet 15c, ⅛ Ounce 50c.

COLLECTION—1 Packet each of the above 6 varieties 75c.

GIANT CALIFORNIA SUNSHINE ASTERS (A)—Plants of this new variety grow three feet high, and bear blossoms on long stiff stems; splendid for cutting. Flowers large, 4 to 5 inches in diameter. Colors remarkably beautiful. A two-tone effect is obtained through the contrasting colors of the disc-like center and the outer petals varying in shades, Pink, Rose, Blue, and Lavender. In bloom all summer. In mixture only. **Packet 15c, ⅛ Ounce 50c.**

CALENDULA (A)

CAMPFIRE (Sensation)—Accepted as the best forcing Calendula; the blooms are larger than any other type. Its color is a dark orange with a scarlet sheen. **Packet 10c, ¼ Oz. 50c. Oz. $1.50.**

GOLDEN RADIO—Flowers very double of a rich golden-orange and the petals beautifully quilled. **Pkt. 10c, ¼ Oz. 30c.**

CHRYSANTHA—An entirely new type of Calendula bearing a striking resemblance to the Chrysanthemum. Its color is a rich buttercup yellow; on long stems, and is an ideal cut flower. **Packet 15c, ¼ Ounce 50c, Ounce $1.50.**

CARNATIONS (A)

CHABAUD'S GIANT DOUBLE—Plants upright, bearing numerous long stems of large double flowers. These are readily grown from seed and are just as full and as fragrant as those sold by the florist. Start the seed indoors in boxes. **Cardinal Red, Flesh Pink, Salmon Rose, Violet Shades, Crimson, White, Finest Mixed. Each color, Packet 15c, ⅛ Ounce 40c; Mixed, Packet 15c, ⅛ Ounce 30c.**

COLLECTION—1 packet each of the above six varieties 75c.

COSMOS (A)

KLONDYKE (Orange Flare)—An early flowering type with vivid orange flowers with attractive light green foliage. **Packet 25c, ¼ Ounce 75c.**

DAHLIAS (A)

UNWIN'S DWARF BEDDING—This new race can be easily grown from seed blooming in about 3 months. They are extremely free flowering and in a very wide color range, growing about 24 in. high. **Mixed, Packet 15c, ⅛ Ounce 60c.**

DELPHINIUM (H. P.)

ICEBERG—This beautiful Delphinium reaches a height of 4 ft. and bears long spikes of pure white blooms. **Packet 35c, 3 Packets $1.00.**

WREXHAM or HOLLYHOCK STRAIN—Enormous spikes of blooms in all the glorious shades of Blue. The graceful spikes are not unlike Hollyhocks, a truly magnificent strain. **Packet 25c, ⅛ Ounce $1.00.**

GAILLARDIA

INDIAN CHIEF (A)—A distinctive new variety of easy culture. Grows about 18 inches high, producing blooms of large glistening bronze red with dark brown center, flowers from early summer until frost. Fine for cutting. **Packet 10c, ¼ Ounce 35c.**

GERBERA (Transvaal Daisy)

NEW GIANT HYBRIDS (T. P.)—A very beautiful daisy like flower from South Africa. Though a green house subject, it is also fine for the garden if protected well over the winter. A splendid variety of colors. 15 inches high. **Packet 25c.**

HOLLYHOCKS

NEW DOUBLE ORANGE PRINCE (H. P.)—Striking double flowers of a distinct new shade, a rich apricot orange. **Packet 15c, ⅛ Ounce 50c.**

LARKSPUR (Giant Imperial Type) (A)

This type has superseded all other Larkspurs for Florists' and general garden use. Large spikes of double flowers on stems 4 ft. long, upright and compact growing. **Blue Spire, Lilac Spire, White Spire, Gloria Deep Rose, Exquisite Pink, Finest Mixed. Each Color, Packet 15c, ⅛ Ounce 30c; Mixed, Packet 15c, ⅛ Ounce 25c.**

COLLECTION—1 Packet each of the above 5 varieties, 65c.

MARIGOLDS (A)

GUINEA GOLD (African)—Compact, pyramidal plant, 2½ ft. high, covered with brilliant golden orange, ruffled flowers, excellent for cutting. **Packet 15c, ¼ Ounce 60c.**

DWARF FRENCH MARIGOLDS

FIRE CROSS—Deep orange single flowers spotted with red. Plant grows about 1 ft. high, excellent for edging a border. **Packet 10c, ¼ Ounce 30c.**

ROBT. BEIST—Plant grows 1 ft. high and literally covered with dark maroon double flowers the entire summer. **Packet 10c, ¼ Ounce 30c.**

NASTURTIUM (A)

NEW DOUBLE SCARLET GLEAM—Ever since the introduction of Golden Gleam Nasturtium, interest has run high awaiting new colors in this Double Sweet-Scented Type. Scarlet Gleam is the first of the new colors. The flowers are a fiery orange scarlet of immense size, very fragrant and borne on long stems. **Packet 25c, ½ Ounce $1.25, Ounce $2.00.**

NEW DOUBLE GLEAM HYBRIDS—The Hybrids are a collection of gorgeously colored double fragrant flowers, never dreamed of before in a Nasturtium. They thrive under any cultural condition and this factor combined with the brilliance of their colors assure them of a universal popularity. The plants are semi-dwarf and the flowers are borne on long stems. **Packet 25c, ½ Ounce 90c, Ounce $1.50.**

DOUBLE GOLDEN GLEAM—Still maintaining its position as one of the most popular novelties of the past two seasons. The large double, sweet scented, golden yellow flowers on long stems, are borne profusely on the semi-dwarf plants. **Packet 10c, Ounce 35c, ¼ Pound $1.00.**

PETUNIA

COCKATOO (A)—Grows only 8 inches high and covered with a mass of violet-purple flowers with white spots and stars. **Packet 25c, ⅛ Ounce $1.00.**

POPPY

DOUBLE SHIRLEY MIXED (A)—New semi-double type in a wide range of colors. Blooms continuously throughout spring and summer. **Packet 10c, ¼ Ounce 30c.**

SALVIA (Scarlet Sage)

HARBINGER (A)—A dwarf large flowering variety which starts blooming in July and continues until frost. It makes beautiful symmetrical plants about 15 inches high covered with sprays of large brilliant scarlet flowers. **Packet 15c, ⅛ Ounce $1.00.**

PARINACEA (H. P.)—Fine, light blue flowers, borne on long spikes. Plants grow from two to three feet high, and will bloom the first year from seed. **Pkt. 10c, ⅛ Oz. 50c.**

NEW ANNUAL SCABIOSAS

LOVELINESS (A)—Various tones of delicate salmon rose shades, with delightful fragrance, borne on long stiff stems. The most beautiful Scabiosa ever introduced. **Packet 15c, ¼ Ounce 40c.**

FIERY SCARLET (A)—A brilliant shade of scarlet, very double. Height 18 in. **Packet 15c, ¼ Ounce 40c.**

PEACH BLOSSOM (A)—A lovely shade of pink, borne on long stems. Excellent for cutting. **Packet 15c, ¼ Ounce 40c.**

SHASTA (A)—Pure white with immense blooms 3 to 4 inches in diameter. **Packet 15c, ¼ Ounce 40c.**

NEW PERENNIAL SCABIOSA

GIANT HYBRIDS (H. P.)—(Isaac House Strain)—Fringed and ruffled flowers in varying tones of light and dark blue. **Packet 25c, 1-16 Ounce 50c.**

URSINIA (Jewels of the Veldt)

ANETHOIDES (A)—Brilliant orange daisy like flowers, with deep purple center. Grows about 10 in. high and is very easily raised from seed. **Packet 15c, 2 for 25c.**

NEW DWARF COMPACT VERBENAS (A)

Plants grow only about 6 in. high and are literally covered with blooms. Fine for Rock Gardens and border. **Scarlet, Dark Blue, Salmon Rose, Ruby Red, Pure White, Mixed. Each color, Pkt. 15c, ⅛ Oz. 75c; Mixed, Pkt. 15c, ⅛ Oz. 60c.**

COLLECTION—1 Packet each of above five colors 60c.

NEW ZINNIA

PANTASY—MIXED (A)—The medium sized double flowers are composed of a mass of shaggy petals. The color range includes the brightest shades as well as the popular pastels. **Packet 25c, ⅛ Ounce 50c.**

GENERAL LIST OF FLOWER SEEDS

ACHILLEA (Yarrow)

PTARMICA, "The Pearl" (H. P.)—Clusters of snow white flowers—2 ft. high. Blooms all summer, fine for cutting. **Packet 15c, ⅛ Ounce 50c.**

"ROSEUM" (H. P.)—Rosy-Pink—Height 1½ ft. June and July. **Packet 10c, ⅛ Ounce 25c.**

AGATHEA (Blue Border Daisy)

COELESTIS (T. P.)—Beautiful sky-line flowers. Blooms profusely during summer and fall. Fine for borders, also potted for winter blooming. 1 ft. **Packet 10c, ¼ Ounce 50c.**

AGERATUM (Floss Flower)

One of the best bedding plants, being literally a sheet of color from early summer until frost. Easily raised from seed.

BLUE PERFECTION (A)—Deep blue flowers, compact growth. Fine for cutting and borders. 9 in. **Packet 10c, ¼ Ounce 25c, I Ounce 75c.**

LITTLE DORRIT BLUE (A)—Flowers bright blue, used largely for edging. 6 in. **Pkt. 10c, ¼ Oz. 25c, Oz. 75c.**

LITTLE DORRIT WHITE (A)—Same in habit as preceding, only white. **Packet 10c, ¼ Ounce 25c, Ounce 75c.**

AGROSTEMMA (Mullein Pink)

CORONARIA (H. P.)—Attractive flowers of glowing crimson, silvery foliage. Height 2 ft. June to Sept. **Packet 10c, ¼ Ounce 25c.**

ALYSSUM

A. MARITIMUM (Sweet Alyssum) (A)—Of trailing habit, covered with white flowers all summer. **Packet 10c, ¼ Ounce 20c, Ounce 60c.**

LITTLE GEM (A)—Plants grow 4 in. high. White. **Packet 10c, ¼ Ounce 20c, Ounce 60c.**

CARPET OF SNOW (A)—Pure white. Grows two to three inches high. **Packet 10c, ¼ Ounce 25c, Ounce 75c.**

LILAC QUEEN (A)—Very pretty lilac. 6 in. high. **Packet 10c, ¼ Ounce 25c, Ounce 75c.**

SAXATILE COMPACTUM (Basket of Gold) (H. P.)—Bright yellow flowers which cover the plant from April to June. Excellent for Rock Garden or Border. One foot. **Packet 10c, ¼ Ounce 35c, Ounce $1.00.**

AMARANTHUS

Annuals with brilliant foliage, growing from three to five ft. high. Plant in hot, sunny location.

CAUDATUS (Love Lies Bleeding) (A)—Blood-red, drooping. **Packet, 10c, ¼ Ounce 25c.**

TRICOLOR (Joseph's Coat) (A)—Leaves red, yellow and green. **Packet 10c, ¼ Ounce 25c.**

MOLTEN FIRE (A)—Best and showiest. Bronze foliage tipped with fiery scarlet. **Packet 15c, ¼ Ounce 75c.**

ANAGALLIS (See page 3 for description)

ANCHUSA

ITALICA (Dropmore Variety) (H. P.)—Bright-blue, forget-me-not flowers, on graceful stems the entire summer. 4 ft. **Packet 10c, ¼ Ounce 35c.**

BLUE BIRD (A)—Dwarf compact type, about 15 in. high with indigo blue flowers. **Packet 10c, ¼ Ounce 35c.**

ANEMONE (Wind Flower)

ST. BRIGID (H. P.)—A wide variety of colors both double and semi-double flowers, 18 in. **Packet 15c.**

ANTHEMIS (Marguerite)

KELWAYI (H. P.)—Large golden-yellow daisy-like flowers. Fine for cutting. Two feet high, blooming all summer. **Packet 10c, ¼ Ounce 50c.**

ANTIRRHINUM (Snapdragon) (A)

One of the most valuable flowers which is readily grown from seed.

GIANT-FLOWERING TALL VARIETIES—30 in. high (A)—Deep Crimson, Golden King, Pink Venus, Scarlet Defiance, Pure White, Rose King, Finest mixed. Named varieties. Each Packet 10c, ¼ Ounce 50c. Mixed, Packet 10c, ¼ Ounce 35c.

COLLECTION—1 Pkt. each of the above 6 colors, 50c.

GIANT-FLOWERING MEDIUM TALL VARIETIES, 18 in. high (A)—Brilliant Orange—Dark Crimson—Rich Yellow—Salmon Rose—Bright Scarlet—Pure White—Finest named varieties, **each pkt. 10, ¼ oz. 50c. Mixed, pkt. 10c, ¼ oz. 35c.**

COLLECTION—1 pkt. each of the above six colors 50c.

ANTIRRHINUM (Rust Proof)—See page 3 for description.

AQUILEGIA (Columbine)

Graceful plants that bear a profusion of flowers in early summer. Will grow in shade or sun.

GIANT LONG-SPURRED, BLUE, Shades (H. P.)—All the shades of light and dark blue. **Pkt. 15c, ⅛ oz. $1.00.**

GIANT LONG-SPURRED, PINK, Shades (H. P.)—All the shades of light and dark pink. **Pkt. 15c, ⅛ oz. $1.00.**

GIANT LONG-SPURRED, MIXED (H. P.)—Containing all colors of this splendid strain. **Pkt. 15c, ⅛ oz. 75c.**

ALPINE-BLUE (H. P.)—A fine variety for the Rock Garden. Rich Blue. **Pkt. 10c, ⅛ oz. 50c.**

ARABIS (Rock Cress)

ALPINA (H. P.)—Splendid for rockeries and edging, covered with pure white flowers as soon as snow disappears. 6 in. **Packet 10c, ¼ Ounce 30c.**

ARCTOTIS (African Lilac Daisy)

GRANDIS (A)—Large, snowy flowers, two to three ft. high. Pure white on upper surface, Lilac-blue beneath. **Pkt. 10c, ¼ oz. 30c.**

AUBRIETIA (False Wall Cress)

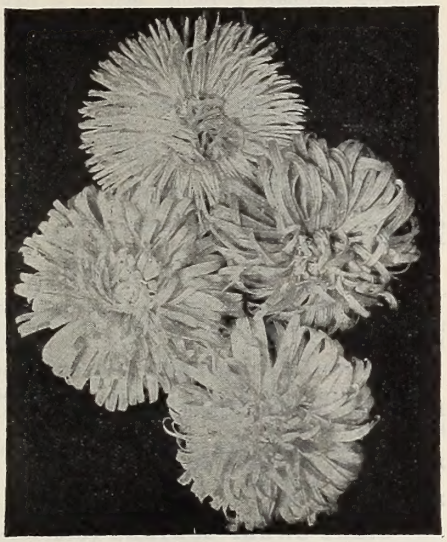
LARGE FLOWERING HYBRIDS (H. P.)—A delightful group of Rock Garden plants that thrive in sunny crevices. Covered with brilliantly colored flowers in spring and early summer. Height 6 in. **Packet 15c, 1/16 ounce 60c.**

ASTERS

An open sunny position and a well prepared soil is needed to grow Asters to perfection. Work in a liberal quantity of bone and a little hydrated lime before setting out the plants.

EARLY BLOOMING ASTERS

EARLY BEAUTY (Wilt Resistant (A)—Plants grow from 2½ to 3 ft. high with long stems bearing large well formed flowers. The colors are good and keeping qualities are unsurpassed. Blooms early in July. **Azure Blue — Carmine Rose — Crimson—Purple—Flesh Pink — White—Finest Mixed. Each color, Pkt. 15c, ⅛ oz. 50c. Mixed, Pkt. 15c, ⅛ oz. 40c. One package, each of the above 6 colors 75c.**



ASTER

QUEEN OF THE MARKET, W. R. (A)—These well-known early flowering Asters are of branching habit, about 20 inches high, bloom in early July, fine for cutting. **Crimson — Dark Blue—Flesh Pink — Peach Blossom—Scarlet —White—Mixed.**

Each color, Pkt. 10c, ¼ oz. 40c. Mixed, pkt. 10c, ¼ oz. 35c. Collection, one pkt. each of above 6 colors, 50c.

MIDSEASON BLOOMING ASTERS

MAMMOTH PEONY FLOWERED (A)—This superb strain with immense double flowers are borne on long non-lateral stems. The plants grow 2½ to 3 ft. high, and bloom from late July until frost. **Azure Fair—Flesh Pink—Peach Blossom—Purple—Deep Rose—White—Mixed. Each color, pkt. 15c, ⅛ oz. 60c. Mixed pkt. 15c, ⅛ oz. 50c.**

COLLECTION—1 Packet each of above six colors, 75c.

IMPROVED OSTRICH-FEATHERED (Wilt Resistant) (A)—The flowers are borne on long stems and of a loose feathery character, frequently measuring over 5 inches in diameter. Plants grow about 2½ ft. high and are of branching habit. **Azure Blue—*Crimson—*Purple—*Light Blue—Peach Blossom—*Shell Pink—Sky Blue—*Deep Rose—*White—Finest Mixed. Each color, pkt. 10c, ¼ oz. 50c. Mixed, pkt. 10c, ¼ oz. 40c.**

COLLECTION—1 packet each of six varieties marked *. Price 50c.

ASTERMUM (A)

A splendid new type of Aster bearing enormous flowers that give the impression of the Japanese Chrysanthemums. Plants grow about two ft. high, and bloom from July until frost. **Azure Blue—Rose Pink—White—Mixed. Each color, Packet 10c, ¼ ounce 50c. Mixed, packet 10c, ¼ ounce 40c.**

ASTERS

CALIFORNIA GIANTS IMPROVED—See page 3 for description.

GIANT CALIFORNIA SUNSHINE—See page 3 for description.

MISCELLANEOUS ASTERS—See page — for description.

PEERLESS YELLOW (A)—A splendid new Aster with a border of pure white and the center rich deep yellow. **Packet 10c, ⅛ ounce 75c.**

HEART OF FRANCE (Wilt Resistant) (A)—This is the largest flowering of the dark red sorts. Plants grow about 2 ft. high and bear the Ruby-Red flowers. In profusion in September. **Packet 10c, ⅛ ounce 75c.**

BALL'S WHITE (A)—A fine pure white Aster of dwarf branching habit. Blooms with the midseason sorts. **Packet 10c, ⅛ ounce 50c.**

HARDY PERENNIAL ASTER

MICHAELMAS DAISY MIXED (H. P.)—Medium size flowers of a select mixture. Plants grow about 3 ft. high, and bloom in September and October. Will flower the first year from seed if started early. **Packet 10c, ⅛ Ounce 75c.**

BALLOON VINE (Love in a Puff) (A)

A rapid growing annual vine with pretty foliage. Flowers white, followed by seed pods resembling miniature balloons. Always a great interest to the children. Height 8-10 ft. **Packet 10c, ounce 40c.**

BALSAM (Touch Me Not—Lady's Slipper)

DOUBLE CAMELLIA FLOWERED

One of the easiest Annual flowers to grow. Plants grow about 2 ft. high, and bear the flower close against the stems. The ripe seed pods fly open with an angry jerk if they are touched, scattering the seed for several feet in every direction.

DOUBLE PINK (A)—Light Pink. **Packet 10c, ¼ ounce 30c.**

DOUBLE MIXED (A)—A mixture of all colors. **Packet 10c, ¼ ounce 25c.**

BELLIS (English Daisy)

Little Rosettes of dark green foliage, with short stems bearing double flowers from early spring until midsummer. While supposed to be a Perennial, it may die out after a year or two.

LONGFELLOW (T. P.)—Dark Rose. **Pkt. 10c, ⅛ oz. 50c.**

SNOWBALL (T. P.)—Pure White. **Pkt. 10c, ⅛ oz. 50c.**

DOUBLE MIXED (T. P.)—A mixture containing all the colors. **Packet 10c, ⅛ ounce 30c.**

BRACHYCOME (Swan River Daisy)

A free flowering Annual about 12 in. high, covered with a profusion of Blue, Rose and White flowers the greater part of the summer.

BRACHYCOME

AZURE FAIRY (A)—Lavender blue. **Pkt. 10c, ¼ oz. 50c.**

ROSEA (A)—Rose. **Pkt. 10c, ¼ oz. 50c.**

MIXED (A)—All Colors mixed. **Pkt. 10c, ¼ oz. 40c.**

BROWALLIA (Amethyst)

Fine Annual covered with blue and white flowers during summer and autumn. 18 in. high. Blooms freely in winter if plants are lifted and cut back.

MIXED (A)—Rich Blue and White. **Pkt. 10c, ¼ Oz. 30c.**

CALENDULA (Pot Marigold)

A splendid free flowering Annual of easy culture

ORANGE KING (A)—Deep Orange. **Packet 10c, ¼ ounce 20c, ounce 60c.**

LEMON QUEEN (A)—Rich golden yellow. **Packet 10c, ¼ ounce 20c, ounce 60c.**

FINEST MIXED (A)—All colors. **Packet 10c, ¼ Ounce 20c, ounce 50c.**

CAMPFIRE (Sensation) — See page 3 for description.

RADIO — See page 3 for description.

CHRYSANTHA—See page 3 for description.

CALLIOPSIS (A)

Very showy Annuals of easy culture, blooming all summer. Do not transplant.

GOLDEN WAVE—Rich golden yellow, center dark red. Height 1 ft. **Pkt. 10c, ¼ oz. 25c.**

THE SULTAN—Large flowers of rich maroon-crimson. **Pkt. 10c, ¼ oz. 30c.**

THE DAZZLER—Large yellow blooms with rich maroon center. **Pkt. 10c, ¼oz. 30c.**

CALENDULA

TALL MIXED—A mixture of the tall varieties. **Packet 10c, ½ Ounce 25c.**

Dwarf Mixed—A mixture of Dwarf sorts. **Pkt. 10c, ½ oz. 30c.**

CAMPANULAS (Bell Flowers)

The Bell Flower family are very interesting garden plants, embracing the Annual, Biennial, and Perennial classes, some are tall others are dwarf, but they are all beautiful.

—NEW ANNUAL CANTERBURY BELL (A)—A new Canterbury bell that will bloom the first year from seed. Mixed. **Packet 15c, ⅛ ounce 50c.**

CANTERBURY BELL (Campanula Medium)

SINGLE MIXED (B)—A mixture of the single varieties in blue, rose, and white. Plants grow from two to three feet high, and bloom in June. **Packet 10c. ¼ ounce 25c.**

DOUBLE MIXED (B)—The double-flowering form of the above. **Pkt. 10c, ¼ oz. 40c.**

CUP AND SAUCER (Campanula Calycanthema) (B)

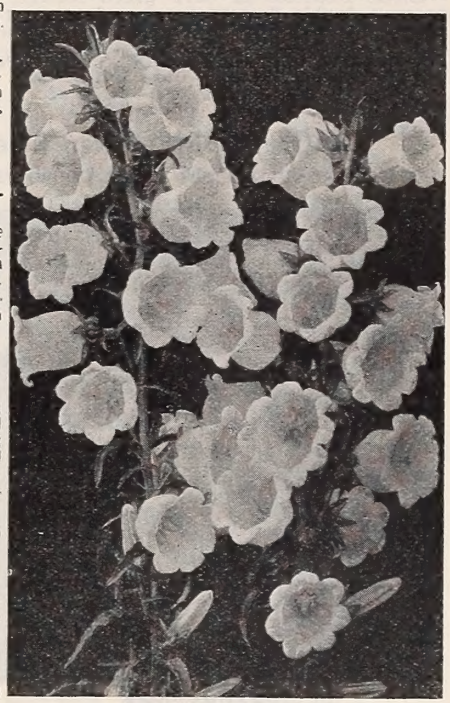
These produce large single flowers resembling a cup and saucer. **Dark Blue — Rose. Each pkt. 10c, ⅛ oz. 35c.**

PEACH BELLS (Campanula Persifolia) (H. P.)

One of the finest of the hardy bell flowers growing two to two and one half feet high Mixed. **Pkt. 15c. ⅛ oz. 60c.**

CHIMNEY BELL FLOWER (Campanula Pyramidalis) (H. P.)

A beautiful flower growing four to five feet high Mixed. **Pkt. 10c, ⅛ oz. 40c.**



CANTERBURY BELLS

MISCELLANEOUS CAMPANULAS

LONGISTYLA (H. P.)—Large purple flowers growing 1 to 1½ ft. high. **Packet 10c, ⅛ ounce 30c.**

ROTUNDIFOLIA (H. P.)—The blue bells of Scotland. Plants grow about 1 ft. high bearing a profusion of clear blue flowers from June to August. Fine for Rock Gardens. **Packet 25c.**

CARPATICA (H. P.)—Flowers of deep blue in bloom all summer, especially good for edging and Rock Gardens. Height 6 in. **Packet 10c, ⅛ ounce 30c.**

CANARY BIRD VINE (Tropaeolum Canariense) (A)

A rapid growing Annual climber producing numbers of pretty canary yellow, fringed flowers. **Pkt. 10c, ¼ oz. 25c.**

CANDYTUFT (Iberis)

The popular bedding and border plant, growing about 12 in. high.

ANNUAL VARIETIES

Crimson—Flesh Pink—Lilac—Bright Rose—Carmine—White—Mixed. Each color, Pkt. 10c, ½ oz. 30c. Mixed, pkt. 10c, ½ oz. 25c.

COLLECTION—1 pkt. each of the above 6 colors, 50c.

PERENNIAL CANDYTUFT

GIBRALTARICA (H. P.)—White, shaded Lilac, **Packet 10c, ⅛ ounce 30c.**

SEMPERVIRENS (H. P.)—White, evergreen foliage. **Packet 10c, ⅛ Ounce 40c.**

CARDINAL CLIMBER (Ipomoea Quamoclit) (A)

A rapid growing Annual climber with clusters of cardinal red flowers and fern like foliage. **Pkt. 10c, ¼ oz. 40c.**

CARNATIONS (Giant Marguerite) (A)

They begin flowering within a few weeks from time of sowing and will survive an ordinary winter if given slight protection. Height 18 in.

DOUBLE MIXED—Packet 10c, ¼ ounce 50c.

CHABAUDS GIANT DOUBLE—See page 3 for description.

CASTOR OIL PLANT (Ricinus) (A)

CAMBODGENSIS (A)—Ornamental Annuals of stately growth, with large dark metallic foliage, stems ebony-black. Fine for lawns, massing or center plants. **Pkt. 10c, oz. 30c.**

ZANZIBARIENSIS (A)—Their immense leaves and enormous plants exceed all other varieties. Foliage varying from light and dark green to a deep red. **Pkt. 10c, oz. 30c.**

MIXED VARIETIES (A)—A select mixture of all colors. **Packet 10c, ounce 25c.**

CELOSIA (A)

Showy Annuals growing best in a light soil.

CELOSIA CHILDSI (Chinese Wool-Flower) (A)—A most distinct and beautiful new form of Celosia. The plants are freely branching and bear in profusion beautiful ball-shaped flowers, resembling silky wool. We offer this variety in a fine mixture. Height 2 ft. **Packet 10c, ⅛ ounce 25c.**

CELOSIA CRISTATA (Cockscomb) (A)—These interesting and free flowering annuals are of easy culture; producing large, brilliant comb-like heads. Excellent for borders; height 1½ to 2 ft. In bloom from July until frost. Crimson. **Packet 10c, ⅛ ounce 25c.**

CELOSIA PLUMOSA (Feathered Cockscomb) (A)—An excellent decorative plant. The feathery plumes are produced on long stems and are splendid for cutting. Finest mixed **Packet 10c, ¼ ounce 25c.**

CENTAUREAS

A very interesting class of Annuals and Perennials which are very popular. They are fine for cutting, and very easily grown.

DOUBLE CORNFLOWERS (Centaurea Cyanus)

These are also known as Ragged Robin, Ragged Sailor, Bachelor's Buttons, Bluet and Blue Bottle. A very desirable garden Annual.

DOUBLE BLUE (A)—The best and most popular color. **Packet 10c, ¼ ounce 25c.**

DOUBLE MIXED (A)—A mixture of all the colors. **Packet 10c, ¼ ounce 25c.**

GIANT SWEET SULTANS (Centaurea Imperialis)

Beautiful sweet-scented flowers are borne on long strong stems that are especially fine for cutting. Lasting for several days.

YELLOW SUAVEOLENS (A)—Bright Yellow. **Packet 10c, ¼ Ounce 25c.**

FINEST MIXED (A)—A mixture of all the colors. **Packet 10c, ¼ ounce 25c.**

DUSTY MILLER (Centaurea)

CANDIDISSIMA (A)—Silvery white leaves that are excellent for edging. **Packet 10c, ⅛ ounce 25c.**

HARDY CENTAUREA

MONTANA (H. P.)—Large blue flowers, blooming from July to September. Height 2 ft. **Pkt. 10c, ⅛ oz. 25c.**

CERASTIUM (Snow in Summer)

TOMENTOSUM (H. P.)—A splendid spreading Perennial plant; with attractive silvery foliage and small white flowers. Splendid for Rock Gardens. In bloom during May and June. Height 10 to 12 in. Prefers sunny locations. **Pkt. 10c, ⅛ oz. 30c.**

CHELONE (Turtle Head)

Handsome Perennial growing two to three ft. high. In bloom during summer and fall.

BARBATA HYBRIDS (H. P.)—Shades of Pink, Rose, Red and Violet. **Packet 10c, ¼ ounce 25c.**

CHRYSANTHEMUMS (Annual Varieties)

Plants grow two feet high, and bear a profusion of daisy-like flowers from July to October. Splendid for cutting.

NORTHERN STAR—White, Yellow ring around dark brown eye. **Packet 10c, ¼ ounce 25c.**

EASTERN STAR—Primrose yellow, with dark brown eye. **Packet 10c, ¼ ounce 25c.**

SINGLE MIXED—Choice mixture of all single varieties. **Packet 10c, ¼ ounce 20c.**

DOUBLE MIXED—Select mixture of double sorts. **Packet 10c, ¼ ounce 25c.**

CHRYSANTHEMUM (Shasta Daisy)

LEUCANTHEMUM, ALASKA (H. P.)—Magnificent daisy of pure glistening white. 5 in. across, height 3 ft. **Packet 10c, ⅛ ounce 25c.**

CLARKIA ELEGANS (A)

A very pretty Annual of easy cultivation that will grow in sun or shade. Long Racemes of flowers in July on plants 2 to 2½ ft. high.

DOUBLE AND SINGLE MIXED—A choice mixture of all varieties. **Packet 10c, ¼ ounce 25c.**

COBAEA (Cup-and-Saucer Vine) (A)

A rapid growing climber attaining a height of 30 ft. during the season. Will cling to any rough surface. In sowing place seed edgewise and cover lightly with soil. Scandens, Purple. **Packet 10c, ¼ ounce 25c.**

COREOPSIS (H. P.)

Among the most useful summer flowers that require very little attention. Plants grow about two feet high, and are covered with a mass of yellow flowers all during the summer.

GRANDIFLORA SINGLE — Rich golden yellow flowers. **Pkt. 10c, ¼ oz. 25c.**

GRANDIFLORA DOUBLE — Rich golden yellow double flowers. **Pkt. 10c, ¼ oz. 35c.**

COREOPSIS LANCEOLATA GRANDIFLORA

COSMOS (A)

One of the finest summer and autumn blooming plants that will produce an abundance of cut flowers for fall decorations.

EARLY SINGLE DWARF TYPE

MIXED (A) — A select mixture of all colors, blooming from July until frost. Height four feet. **Pkt. 10c, ¼ oz. 20c, oz. 60c.**

LATE SINGLE TALL TYPE

Blooming from September until frost. Height six to eight ft. **Crimson—Pink—White—Mixed. Each color, packet 10c, ¼ ounce 25c, ounce 75c. Mixed, packet 10c, ¼ ounce 20, ounce 60c.**

LADY LENOX (A)—Deep rosy pink flowers of gigantic size. Late blooming type. **Pkt. 10c, ¼ oz. 25c, oz. 75c.**

LATE DOUBLE TALL, CRESTED TYPE

MIXED (A)—A choice mixture of the double Cosmos. **Packet 10c, ¼ Ounce 40c, Ounce $1.20.**

KLONDYKE—See page 3 for description.

CYNOGLOSSUM (Chinese Forget-Me-Not)

A highly perfumed plant of easy culture, growing about 18 in. high and producing throughout the summer large sprays of forget-me-not like blooms.

AMABILE, Blue (A) — Deep Blue. **Pkt. 10c, ¼ oz. 25c.**

AMABILE, Pink (A) — Rich deep pink. **Pkt. 10c, ¼ oz. 50c.**

COSMOS

CYPRESS VINE (Ipomoea Quamoclit) (A)

A very popular vine with fern-like foliage and masses of star - shaped flowers. Grows 15 ft. high. Soak the seed in warm water for several hours before sowing. **Scarlet—Pkt. 10c, ¼ oz. 40c. White — Pkt. 10c, ¼ oz. 20c.**

DWARF DAHLIAS

See page 3 for description.

DELPHINIUMS (H. P.)

No blue is so fine as a clump of well-grown Delphiniums. Seed can be sown any time from spring till fall.

BELLADONNA—Clear turquoise-blue. **Pkt. 10c, ⅛ oz. 50c.**

BELLAMOSUM—Rich deep blue. **Pkt. 10c, ⅛ oz. 50c.**

GOLD MEDAL HYBRIDS—A superb mixture of all shades of blue. **Packet 15c, ⅛ ounce 50c.**

CARDINALE—A brilliant scarlet, plants grow 2½ to 3 feet high. **Packet 15c, ⅛ ounce 75c.**

ICEBERG—See page 3 for description.

WREXHAM OR HOLLYHOCK TYPE—See page 3 for description.

DIANTHUS (Pinks)

Embracing some of the most beautiful flowers in cultivation, including a great variety of brilliant colors. Profuse blooming plants that average about 1 ft. in height.

ANNUAL VARIETIES

HEDDEWIGI (Japanese Pinks)—A colorful assortment of all shades of the double types. **Pkt. 10c, ¼ ounce 25c.**

CHINENSIS (China Pinks)—A select mixture of all the single types, in many bright colors. **Pkt. 10c, ¼ oz. 25c.**

SWEET WIVELSFIELD (Hybrida Dianthus) (A)—Remarkably free flowering Annual, resembling a Sweet William. Grows 12 in. high and a great variety of colors. In bloom from June until frost. **Packet 10c, ⅛ Ounce 25c.**

HARDY PERENNIAL VARIETIES

PLUMARIUS DOUBLE MIXED (Clove Pinks)—Double fringed flowers in many colors. Very sweet scented. Height 1 ft. **Packet 10c, ¼ ounce 40c.**

PLUMARIUS SINGLE MIXED (Pheasant's Eye)—Large single fringed flowers of many colors. Very fragrant. **Packet 10c, ¼ Ounce 25c.**

DELTOIDES (Maiden Pink)—A fine variety for the Rock Garden, with brilliant rose flowers in June and July. Height 6 in. **Packet 10c, ¼ Ounce 40c.**

DICTAMUS (Gas Plant)

FRAXINELLA RUBRA (H. P.)—Large, showy, pink flowers, about 2½ ft. high. In bloom during June and July. **Packet 15c, ⅛ Ounce 60c.**

DIDISCUS (Blue Lace Flower)

COERULEUS (A) — Very pretty Annual, blooming profusely from July until frost. Long, slender stems terminate in flat clusters of lavender blue lace-like flowers, somewhat resembling Queen Anne's Lace. 18 in. high. **Packet 10c, ¼ Ounce 50c.**

DIGITALIS (Foxglove) (B)

Old - fashioned biennials, producing in abundance long spikes of tubular - shaped flowers in June and July. Used extensively in edging shrubberies and half shady places. Height two to four feet.

GLOXINIAFLORA — A fine strain with gloxinia-like flowers on long spikes. **Purple, Rose, White, and Mixed. Each, Packet 10c, ¼ Ounce 35c.**

GRANDIFLORA—Fine spikes of a lovely light yellow. **Packet 15c, ⅛ Oz. 50c.**

FOXGLOVE

GIANT SHIRLEY MIXED—The greatest improvement ever made in Foxgloves. Enormous spikes of flowers of unusual size in a wide range of colors spotted and blotched. **Packet 15c, ¼ Ounce 50c.**

DIMORPHOTHECA (African Golden Daisy)

AFRICAN DAISY

AURANTIACA HYBRIDS (A)—Beautiful new hybrids of the African Golden Daisy. Large flowers in shades of yellow, orange and rich salmon. Plants grow about 15 in. high, and bloom the greater part of the summer and fall. **Pkt. 10c, ¼ Oz. 40c.**

DOLICHOS (Hyacinth Bean) (A)

MIXED—A rapid growing climber with purple and white pea-shaped flowers, followed by ornamental seed pods. **Packet 10c, Ounce 25c.**

ECHINOCYSTIS (Wild Cucumber Vine) (A)

LOBATA—One of the quickest growing Annual vines with sprays of white flowers during July and August, and attractive bright green foliage. **Packet 10c, ½ Ounce 20c.**

ECHINOPS (Globe Thistle) (H. P.)

RITRO—Attractive silvery thistle-like foliage with steel blue flowers. Three to four feet high. **Pkt. 10c, ¼ Oz. 35c.**

ERYNGIUM (Sea Holly) (H. P.)

AMETHYSTINUM—Ornamental plants growing two to three feet high with thistle-like flowers of amethyst blue and holly-like foliage. Fine for winter bouquets. **Packet 10c, ⅛ Ounce 50c.**

ESCHSCHOLTZIA (California Poppy) (A)

Brilliant, profuse blooming annuals from early summer to frost. Height 1 ft. Do not transplant.

DAZZLER—Bright Scarlet. **Packet 10c, ¼ Ounce 40c.**

FIREFLAME—Orange scarlet, silvery foliage. **Packet 10c, ¼ Ounce 40c.**

MAUVE BEAUTY—Pure Mauve. **Packet 10c, ¼ Oz. 40c.**

HYBRIDS MIXED—Containing all the erect types and newest varieties in a wide range of rich colors. **Pkt. 10c, ¼ Oz. 35c.**

EUPATORIUM (Thorough Wort)

CANNABIUM (H. P.)—A striking perennial, growing about 3 ft. high, with purple-blue daisy-like flowers in bloom from August to October. **Packet 10c, ⅛ Ounce 40c.**

EUPHORBIA

An easy growing annual with ornamental foliage.

HETEROPHYLLA (Annual Poinsetta) (A)—A striking plant that resembles the hot house Poinsetta. Grows two to three feet high with glossy green foliage, which turns to a rich orange-scarlet about midsummer. **Pkt. 10c, ¼ Oz. 30c.**

VARIEGATA (Snow on the Mountain) (A)—Bright green foliage, veined and margined with white. Height two feet. **Packet 10c, ¼ Ounce 25c.**

FOUR O'CLOCK (Marvel of Peru) (A)

Free flowering plants whose blossoms open at four o'clock in the afternoon.

TALL MIXED, DWARF MIXED—Each, Packet 10c, Oz. 25c.

GAILLARDIA (Blanket Flower) (ANNUAL VARIETIES)

Easily grown plants that bloom quickly from seed and produce an abundance of showy flowers. Useful for garden decoration and cutting. Height 1½ feet.

PICTA, LORENZIANA—A select mixture of the double types in various colors. **Packet 10c, ¼ Ounce 25c.**

PICTA, INDIAN CHIEF—See page 3 for description.

PERENNIAL VARIETIES

Colorful perennials that are permanent. If seed are sown early, will bloom the first year. Begin flowering in July and continue until frost. Height two feet.

GRANDIFLORA BURGUNDY—Coppery scarlet flowers on long stems. **Packet 15c, ⅛ Ounce 50c.**

GRANDIFLORA FINEST MIXED—A choice mixture of many variations. **Packet 10c, ¼ Ounce 25c.**

GERANIUM (A)

Well known favorites of large and fine varieties. Geraniums are easy to grow from seed, and should be started indoors and transplanted to the open in May or June. Height 1½ feet. **Mixed, Packet 10c, ⅛ Ounce 40c.**

GERBERA (Transvaal Daisy)

See page 3 for description.

GEUM (Avens) (H. P.)

Splendid compact plants with showy flowers, in bloom throughout the summer. Height 1½ feet.

MRS. BRADSHAW—Large, double, brilliant orange-scarlet. **Packet 10c, ⅛ Ounce 50c.**

LADY STRATHEDEN—Large, double golden yellow. **Packet 10c, ⅛ Ounce 50c.**

HYBRIDS MIXED—A mixture of many shades. **Packet 10c, ⅛ Ounce 30c.**

GLOBE AMARANTH (Gomphrena) (A)

Also known as Bachelor's Button. Plant grows about two feet high with flowers that resemble clover heads. Can be dried and used in winter bouquets.

MIXED—A mixture of all the colors. **Pkt. 10c, ¼ Oz. 25c.**

GODETIA (Satin Flower) (A)

A charming little annual that is very popular abroad. They do best in a cool, partially shady place, and bear showy azalea-like flowers in many rich colors.

DWARF MIXED—Each, Packet 10c, ¼ Ounce 25c. TALL MIXED—Each, Packet 10c, ¼ Ounce 25c.

GOURDS (A)

An interesting annual climber with ornamental foliage and curious shaped fruit. Plant these for the children. **Calabash or Pipe, Dipper, Dish Cloth, Egg-shaped, Spoon Orange, Mixed. Each, Packet 10c, Ounce 30c.**

Gypsophila (Baby's Breath)

Free flowering annuals and perennials. Their misty-like flowers are largely used for mixing with other cut flowers.

ELEGANS GRANDIFLORA ALBA (A)—Improved large flowering type, pure white. Several sowings should be made during the season. Heights 18 in. **Pkt. 10c, Oz. 25c.**

ELEGANS GRANDIFLORA ROSEA (A)—A delicate rose shade, equally as good for cutting. **Packet 10c, Ounce 35c.**

PANICULATA, ALBA (H. P.)—A hardy perennial that will bloom the first year if sown early, white. Height three feet. **Packet 10c, ¼ Ounce 25c.**

PACIFICA (H. P.)—Pink flowers coming into bloom after paniculata. **Packet 15c, ⅛ Ounce 75c.**

REPENS (H. P.)—A dwarf white-flowered type, fine for Rock Gardens. Blooms July and August. **Pkt. 10c, ⅛ Oz. 35c.**

REPENS, ROSEA (H. P.)—Same as above but has pale rose flowers. **Packet 10c, ⅛ Ounce 50c.**

HELIANTHEMUM (Rock or Sun Rose)

Low growing evergreen plant suitable for Rock Gardens. Grows about 12 in. high, and is a mass of bloom during June and July.

MUTABILE (H. P.)—A mixture of choice varieties. **Packet 10c, ⅛ Ounce 30c.**

HELIANTHUS (Sunflower)

Very desirable flowers for cutting, lasting from early summer until frost.

DWARF CHRYSANTHEMUM FLOWERED (A)—Large flowers of a rich golden yellow about 2½ ft. high. **Packet 10c, ¼ Ounce 25c.**

AUTUMN GLORY (H. P.)—Showy yellow flowers with black centers, about 6 ft. **Packet 10c, ⅛ Ounce 25c.**

GIGANTIC RUSSIAN (A)—The giant flowering type. **Ounce 10c, ¼ Pound 25c.**

HELIANTHUS

HELICHRYSUM (Straw Flower)

The most popular of the Everlasting flowers. The flowers are double, with a slight resemblance to small Chrysanthemums. A favorite dried cut flower.

FINEST MIXED (A)—A mixture of all the colors. **Packet 10c, ¼ Ounce 25c.**

HELENIUM (Sneezewort)

Hardy Perennial bearing a profusion of flowers during late summer.

HOOPSI (H. P.)—Plants 2½ ft. high with golden yellow flowers. **Packet 10c, ⅛ Ounce 50c.**

HELIOPSIS

LEMOINE (H. P.)—Double golden yellow flowers in bloom throughout the season. Height three feet. **Pkt. 10c, ¼ Oz. 25c.**

HELIOTROPE (Cherry Pie) (T. P.)

A delightfully fragrant tender perennial that is used as an annual bedding plant, flowering during the entire season. About 18 in. high.

MIXED—A splendid assortment of colors. **Packet 10c, ⅛ Ounce 30c.**

HESPERIS (Sweet Rocket)

Plants grow about 2½ ft. high, bearing showy spikes of fragrant flowers. Excellent for cutting.

MIXED (H. P.)—An assortment of all the colors. **Packet 10c, ¼ Ounce 25c.**

HEUCHERA (Coral Bells or Alum Root) (H. P.)

A desirable plant of easy culture growing 30 inches high and bearing spikes of flowers during July and August.

SANGUINEA—Coral red. **Packet 25c, ⅛ Ounce $1.50.**

HIBISCUS (Marshmallow)

Showy plants for shrubbery borders, growing from five to eight feet high, and covered with enormous flowers from July to September.

MIXED (H. P.)—All colors. **Packet 10c, ¼ Ounce 35c.**

HOLLYHOCKS (H. P.)

One of the most stately of hardy plants, growing five to seven feet high.

NEW DOUBLE ORANGE PRINCE—See page 3 for description.

CHATER'S DOUBLE—Newport Pink, Yellow, Maroon, White, Finest Mixed. Each color, Packet 10c, ⅛ Ounce 30c. Mixed, Packet 10c, ⅛ Ounce 25c.

CHATER'S SINGLE MIXED—Superb mixture of the single varieties. **Packet 10c, ¼ Ounce 25c.**

HONESTY (Money Plant)

LUNARIA (B)—Silvery seed pouches used for house ornaments. Two ft. **Packet 10c, ¼ Ounce 30c.**

HUMULUS (Japanese Hop) (A)

A rapid growing climber with luxuriant foliage attaining a height of twenty to thirty feet. Insects and drought will not trouble it. **Packet 10c, ¼ Ounce 25c.**

IPOMOEA (Moon Flowers and Morning Glories)

HEAVENLY BLUE, IMPROVED (A)—Beautiful flowers of deep blue. **Packet 10c, ¼ Ounce 50c.**

WHITE MOONFLOWER (Noctiflora) (A)—Pure white flowers with a delicate fragrance. **Packet 10c, ½ Ounce 25c.**

IMPERIAL JAPANESE MIXTURE (Morning Glory) (A)—Flowers of gigantic size with beautiful colorings. The best of all the Morning Glories. **Packet 10c, Ounce 35c.**

KOCHIA (Summer Cypress, Mexican Firebush)

TRICHOPHYLLA (A)—An easily grown annual which forms a perfect symmetrical bush of a bright green, which turns to a beautiful shade of crimson in the autumn. Height 3 ft. **Packet 10c, ¼ Ounce 20c.**

LANTANA (T. P.)

Desirable tender bedding plants always in bloom. Verbena-like heads of many colored flowers, two to three feet high. Seed is slow germinating. **Finest Mixed, Pkt. 10c, ¼ Oz. 30c.**

LARKSPUR

LARKSPUR (A)

One of the finest of our summer-blooming annuals that will give a continuous succession of flowers from early July until frost.

DWARF EMPEROR—A dwarf, compact type, ideal for border work. Height two feet. **Bright Rose, Soft Pink, Ageratum Blue, White, Mixed. Each color, Packet 10c, ¼ Ounce 25c. Mixed, Packet 10c, ¼ Ounce 20c,**

GIANT IMPERIAL TYPE—See page 3 for description.

LATHYRUS LATIFOLIUS (Perennial Sweet Pea)

Beautiful clusters of pea-like blossoms in delicate colors. Continually in bloom during the summer. **Finest Mixed, Packet 10c, ¼ Ounce 20c.**

LEPTOSYNE (A)

STILLMANI—Cosmos-like, golden yellow flowers in bloom five weeks after sowing. Height 1½ ft. **Pkt. 10c, ¼ Oz. 35c.**

LIATRIS (Blazing Star, Gay Feather)

PYCNOSTACHYA (H. P.)—Rosy-purple flowers borne on long spikes. It blooms from July to September, and grows three to four ft. high. **Packet 10c, ⅛ Ounce 60c.**

LINUM (Flax)

GRANDIFLORA RUBRUM (A)—A very showy bedding plant with large brilliant scarlet flowers, in bloom all summer. Height 15 in. **Packet 10c, ¼ Ounce 20c.**

PERENNE BLUE (H. P.)—Bright blue flowers, in bloom all summer. Height 18 in. **Packet 10c, ¼ Ounce 20c.**

LOBELIA

CRYSTAL PALACE COMPACTA (A)—Rich deep blue with dark foliage. Height 4 in. **Packet 10c, ⅛ Oz. 50c.**

GRACILIS, MIXED (A)—A trailing type of several colors. **Packet 10c, ⅛ Ounce 25c.**

CARDINALIS (H. P.)—A hardy variety bearing a profusion of tall spikes covered with brilliant scarlet flowers on plants three feet high. Blooms from early August to late September. **Packet 25c, ⅛ Ounce 75c.**

LUPINUS (Lupine)

HARTWEGI (A)—Easily grown, free flowering annuals, with graceful spikes of pea-shaped flowers. Plants grow two feet high and bloom throughout summer and fall. Plant in light shade. **Dark Blue, Sky Blue, Rose, White, Mixed. Each, Packet 10c, ½ Ounce 25c.**

POLYPHYLLUS (H. P.)—Bloom during May and June and succeed best in a rich soil, partly shaded. These do not transplant well; sow seed where they are to flower. Height 3 ft. **Blue, Rose, Yellow, Mixed. Each, Pkt. 10c, ¼ Oz. 35c.**

LYCHNIS

CHALCEDONICA (H. P.)—Large heads of star-shaped flowers of flaming scarlet. Height 2 ft. **Pkt. 10c, ¼ Oz. 25c.**

MARIGOLDS (A)

The African and French Marigolds are old favorites of easy culture. The African types grow about 2½ feet high, the French about one foot.

DOUBLE AFRICAN VARIETIES

ORANGE, ALL DOUBLE—Produces a perfectly double bloom of a deep golden orange. **Packet 10c, ¼ Ounce 60c.**

LEMON, ALL DOUBLE—Same as above, except the color, which is a clear yellow. **Packet 10c, ¼ Ounce 60c.**

DOUBLE MIXED—Yellow and orange shades. **Packet 10c, ¼ Ounce 25c.**

Marigold

MARIGOLD GUINEA GOLD

GUINEA GOLD — See page 3 for description.

DWARF FRENCH VARIETIES

LEGION OF HONOR (Little Brownie)—A single flowering type forming compact bushes nine inches high. The flowers are golden yellow, with a blotch of dark crimson on each petal. They begin to flower in June and continue until frost. **Packet 10c, ¼ Ounce 25c.**

SINGLE MIXED—A select mixture of all the single varieties. **Packet 10c, ¼ Ounce 25c.**

DOUBLE MIXED—A select mixture of all the double varieties. **Packet 10c, ¼ Ounce 25c.**

FIRE CROSS—See page 3 for description.

ROBERT BEIST — See page 3 for description.

MATTHIOLA (Evening-Scented Stock)

BICORNIS (A)—An old-fashioned favorite grown for the entrancing fragrance which it emits during the evening. Height 18 in. **Packet 10c, ¼ Ounce 25c.**

MIGNONETTE (Reseda)

An easily grown annual, delightfully fragrant. Height 18 in.

ALLEN'S DEFIANCE (A)—A deliciously fragrant sort bearing immense spikes of large flowers. **Pkt. 10c, ¼ Oz. 25c.**

MIXED (A)—A select mixture of the large flowering varieties. **Packet 10c, ¼ Ounce 25c.**

MOMORDICA

An attractive climbing vine with curious and ornamental fruits.

BALSAMINA (Balsam Apple) (A)—Apple-shaped, orange fruits. Height ten ft. **Packet 10c, Ounce 50c.**

CHARANTIA (Balsam Pear) (A)—Pear-shaped, coppery scarlet fruits. Height ten ft. **Packet 10c, Ounce 50c.**

MYOSOTIS (Forget-Me-Not)

One of the most admired of our spring flowers, very effective when grown in masses.

ALPESTRIS, BLUE (H P)—Rich blue flowers borne profusely on plants nine in. high. Blooms in April. **Packet 10c, ¼ Ounce 40c.**

ALPESTRIS, PINK (H P)—The pink form of the above. **Packet 10c, ¼ Ounce 60c.**

ALPESTRIS, MIXED (H P)—A mixture of blue, rose and white. **Packet 10c, ¼ Ounce 30c.**

PALUSTRIS SEMPERFLORENS (H. P.)—Large clear blue flowers, in bloom from May until fall. **Pkt. 15c, ⅛ Oz. 50c.**

NASTURTIUM (A)

Nothing excels these for ease of culture, duration of bloom, and brilliancy of coloring. A great profusion of gorgeous blossoms within a few weeks from the time they are sown until frost.

DWARF MIXED—A mixture of the large flowering dwarf varieties. **Packet 10c, Ounce 15c, ¼ Pound 30c.**

TALL MIXED—A mixture of the large flowering climbing varieties. **Packet 10c, Ounce 15c, ¼ Pound 30c.**

DWARF IVY-LEAVED—Dark Green ivy-like foliage in many colors. **Packet 10c, Ounce 20c.**

DOUBLE GOLDEN GLEAM—See page 3 for description.

DOUBLE SCARLET GLEAM—See page 3 for description.

DOUBLE GLEAM HYBRIDS—See page 3 for description.

NEMESIA

A beautiful annual with orchid-like flowers.

BLUE GEM (A)—A splendid variety, eight in. high, myosotis blue. **Packet 15c, ⅛ Ounce $1.00.**

TRIUMPH, MIXED (A)—Finest mixed of all the colors. **Packet 10c, ⅛ Ounce 75c.**

NICOTIANA (Flowering Tobacco)

AFFINIS, WHITE (A)—Pure white, delicately perfumed, blooming all season on plants three ft. high. **Packet 10c, ¼ Ounce 25c.**

SANDERAE, CRIMSON KING (A)—Dark velvety crimson red flowers. **Packet 10c, ¼ Ounce 30c.**

NIGELLA (Love in a Mist) (A)

A hardy quick blooming annual.

MISS JEKYLL—Cornflower-blue blossoms, splendid for cutting. Height 18 in. **Packet 10c, ¼ Ounce 25c.**

OENOTHERA (Evening Primrose)

LAMARCKIANA (H P)—Enormous yellow flowers in bloom from July to October. Height three feet. **Pkt. 10c, ¼ Oz. 25c.**

PANSIES (G. & T. CO.'s Select Giants) (B)

Seed may be sown in April and again in July and August. Do not allow seed to dry out, and plant out in a rich deep soil enriched with well rotted cow manure. The summer sown seed should be protected over the winter, and they will bloom the following April.

ROGGLI'S SWISS GIANTS—These are remarkable Pansies of a most robust habit. The flowers are extra large, on long stems, and are particularly good for cutting.

BERNA—Rich velvety dark blue. **Packet 25c, 1-16 Ounce $1.00.**

CARDINAL — Garnet red. **Packet 25c, 1-16 Ounce $1.00.**

RHEINGOLD—Golden yellow, mahogany center. **Packet 25c, 1-16 Ounce $1.00.**

FINEST MIXED—A choice mixture of all the colors. **Packet 25c, 1-16 Ounce 75c.**

CALIFORNIA GIANTS, MIXED — Giant flowers in a fine range of colors. **Packet 15c, ⅛ Oz. $1.00.**

TRIMARDEAU MIXED — A splendid bedding type bearing a great quantity of large blooms in every color. **Packet 10c, ¼ Ounce 60c.**

PANSY

PASSION FLOWER (Passiflora) (T. P.)

A beautiful rapid growing climber, easily grown from seed.

MIXED—Blue and White. **Packet 10c, ¼ Ounce 50c.**

PENSTEMON (Beard Tongue) (H. P.)

SENSATION IMPROVED, MIXED—An exceptionally fine bedding plant about 30 in. high, bearing spikes of Gloxinia-like flowers. In many bright colors. **Packet 15c, ⅛ Oz. 75c.**

PETUNIAS (A)

Petunias cannot be equaled for beds, porch-boxes or window boxes; they start flowering early and continue throughout the season.

BALCONY TYPE—A splendid large and free flowering variety for window boxes, hanging baskets, etc. Plants are of a spreading habit. **Deep Blue, Crimson, Rose, White, Mixed. Each, Packet 15c, 1-16 Ounce 50c.**

HYBRIDA NANA ERECTA

ROSY MORN—Soft rose pink. **Packet 10c, ⅛ Ounce 60c.**

ROSE OF HEAVEN—Rich brilliant rose. **Pkt. 10c, ⅛ Oz. 50c.**

COCKATOO—See page 4 for description.

HYBRIDA

HOWARD'S STAR—Reddish purple, with white star in center. **Packet 10c, ⅛ Ounce 50c.**

EXTRA-FINE MIXED—A special mixture of many fine varieties, striped and blotched. Fine for bedding. **Packet 10c, ¼ Ounce 30c.**

PETUNIA

PETUNIA NANA COMPACTA

A new strain of miniature Petunias forming a perfect compact plant.

FINEST MIXED—A well balanced color range. **Packet 15c, ⅛ Ounce 75c.**

SINGLE FRINGED TYPE

FLUFFY RUFFLES—A mixture of light and dark shades, finely fringed and ruffled. **Packet 25c.**

DOUBLE FRINGED MIXED—A splendid variety that will produce a large percentage of giant double flowers in many bright colors. When planting out save the weaker seedlings, as these usually produce the best double flowers. **Packet 35c, 3 Packets $1.00.**

PHLOX DRUMMONDI (A)

One of the most brilliant and satisfactory plants which can be easily grown from seed.

LARGE FLOWERING TALL VARIETIES—15 in. Rose, Scarlet, White. **Each color, Packet 10c, ¼ Ounce 50c; Mixed, Packet 10c, ¼ Ounce 40c.**

LARGE FLOWERING DWARF, MIXED—Plants of this variety grow about 8 in. high. **Packet 10c, ⅛ Ounce 60c.**

HARDY PHLOX (H P)

P. DECUSSATA—Finest mixed of the newest varieties. **Packet 15c, ⅛ Ounce 50c.**

PHYSALIS (Chinese Lantern) (H. P.)

FRANCHETI—An ornamental plant about two feet high producing bright orange scarlet lantern-like fruits, which can be cut and dried and used for winter decorations. **Packet 10c, ¼ Ounce 35c.**

PHYSOSTEGIA (False Dragon Head)

VIRGINICA (H P)—One of prettiest hardy perennials, growing three to four ft. high, and bearing during late summer and fall, spikes of delicate pink Tubular flowers. **Packet 10c, ⅛ Ounce 40c.**

PLATYCODON (Balloon Flower) (H. P.)

An outstanding perennial, producing very showy flowers from July to October on plants 2½ feet high.

GRANDIFLORA—Large steel-blue. **Packet 10c, ¼ Oz. 40c.**

POLEMONIUM (Jacob's Ladder) (H. P.)

Spikes of bell-shaped blue flowers borne profusely in May and June. Height two ft. Plant this for the bees. **Packet 10c, ¼ Ounce 25c.**

POPPIES

Annual Poppies should be sown as early as possible in the spring where they are to flower, as they do not transplant well. Thin out plants to three or four inches apart, and keep the old blossoms cut which will lengthen the flowering season.

SINGLE SHIRLEY (A)

AMERICAN LEGION—Enormous flowers of dazzling orange scarlet on long stems. **Packet 10c, ¼ Ounce 30c.**

APRICOT—Deep apricot. **Packet 10c, ¼ Ounce 25c.**

PICOTEE—White, edged scarlet. **Packet 10c, ¼ Ounce 25c.**

WILD ROSE—Soft, wild rose pink. **Packet 10c, ¼ Oz. 25c.**

FINEST MIXED—A wide range of colors. **Packet 10c, ¼ Ounce 25c.**

DOUBLE SHIRLEY MIXED—See page 4 for description.

FLANDERS POPPY (A)—Dwarf, orange-scarlet with black cross. **Packet 10c, ¼ Ounce 25c.**

ICELAND POPPIES (Papaver Nudicaule) (H. P.)

POPPY

These are hardy perennials that will flower the first year from seed. They are of neat habit with bright green, fern-like foliage, bearing graceful spikes of brilliant flowers in endless profusion. Height 15 in. **Single Yellow—Pkt. 10c, ¼ oz. 50c. Double Mixed—Pkt. 15c, ⅛ oz. 50c.**

ORIENTAL POPPIES (Papaver Orientale) (H. P.)

Sow seed early in spring. The resulting plants will disappear in July and August appearing again as the weather gets cool. When this growth starts they should be transplanted to their permanent flowering quarters.

ORIENTALE SCARLET—Magnificent flowers of brilliant scarlet. **Packet 10c, ¼ Ounce 35c.**

ORIENTALE MIXED—A select mixture of the named sorts. **Packet 10c, ¼ Ounce 50c.**

ALPINE POPPIES (H. P.)—This miniature hardy poppy is excellent for Rock Gardens with blooms of marvelous colors. **Packet 25c.**

PORTULACA (Sun Plant, Mexican Rose) (A)

A gay annual of easy culture, thriving best in an exposed sunny location. Brilliant colored flowers produced throughout the summer in great profusion. Height six inches. **Single Mixed—Packet 10c, ¼ Ounce 25c. Double Mixed—Packet 10c, ¼ Ounce 60c.**

PRIMULA (Primrose)

Plant these in a partially shaded location where they will have a fair amount of moisture.

VULGARIS (English Primrose) (H. P.)—Fragrant canary yellow blossoms. Height 6 in. **Packet 15c.**

VERIS (English Cowslip) (H. P.)—Fine range of mixed colors. Six to nine in. high. **Packet 15c.**

JAPONICA (Japanese Primrose) (H. P.)—A mixture of bright showy flowers. 18 in. high. **Packet 15c.**

Pueraria Thunbergiana (Kudzu Vine) H. P.

The fastest growing, hardy climbing plant. It will grow 8-10 feet the first year and after it has become established, 50 feet in a season is not unusual. Its foliage is large and bears rosy-purple pea-shaped blossoms in late August. **Packet 10c, ¼ Ounce 20c.**

PYRETHRUM (Painted Daisies) (H. P.)

Large daisy-like flowers on plants two feet high, which are exceptionally fine for cutting. **Single Mixed—Packet 10c, ¼ Ounce 60c. Double Mixed—Packet 25c, ⅛ Ounce 75c.**

RUDBECKIA (Cone Flower)

HIRTA (Black-Eyed Susan) (H. P.)—Golden Yellow flowers with dark center. In bloom late summer and fall. Height three feet. **Packet 10c, ¼ Ounce 50c.**

SALPIGLOSSIS (Painted Tongue) (A)

A beautiful annual with a most unusual range of colors. They produce freely from midsummer until frost their orchid-like flowers on plants 2½ ft. high. **Brown and Gold—Crimson and Gold—Light Blue and Gold—Purple and Gold—Rose and Gold—Violet and Gold—Mixed. Each variety. Packet 10c, ¼ Ounce 50c. Mixed, Packet 10c, ¼ Ounce 40c.**

SALVIA (Scarlet Sage)

Start the seed indoors in March and April, and set out when the weather has become settled.

BONFIRE (A)—One of the finest Salvias. Compact bushes about two feet high, with brilliant scarlet flower spikes. **Packet 10c, ⅛ Ounce 50c.**

HARBINGER—See page 4 for description.

PARINACEA—See page 4 for description.

SCABIOSA (Mourning Bride, Pin-Cushion Flower)

The annual type grows quickly from seed and are superb for cutting. They grow 2½ ft. high, and start blooming in July and continue until frost.

ANNUAL VARIETIES

AZURE FAIRY—Clear lavender Blue. **Pkt. 10c, ¼ oz. 30c.**

CRIMSON—Rich crimson. **Pkt. 10c, ¼ oz. 30c.**

FLESH PINK—Delicate Pink. **Pkt. 10c, ¼ oz. 30c.**

KING OF THE BLACKS—Reddish Black. **Pkt. 10c, ¼ oz. 30c.**

YELLOW—Sulphur Yellow. **Pkt. 10c, ¼ oz. 30c.**

MIXED—All Colors. **Pkt. 10c, ¼ oz. 25c.**

FIERY SCARLET—For description see page 4.

LOVELINESS—For description see page 4.

PEACH BLOSSOM—For description see page 4.

SCABIOSA

SHASTA—For description see page 4.

PERENNIAL SCABIOSAS

JAPONICA (H. P.)—A Japanese variety, bearing a profusion of long-stemmed, lavender-blue flowers all summer. Height 2½ ft. **Packet 10c, ¼ Ounce 35c.**

CAUCASICA, Alba (H. P.)—A pure white variety, fine for cutting. Height 3 ft. **Packet 10c, ⅛ Ounce 50c.**

ISAAC HOUSE STRAIN (H. P.)—For description see page 4.

SCARLET RUNNER BEANS (A)

An ornamental climber bearing large sprays of bright scarlet blossom, followed by edible beans of excellent flavor. Rich green foliage. 12 to 15 ft. high. **Pkt. 10c, oz. 20c.**

SEDUM (Stonecrop) (H. P.)

Splendid for Rock Gardens and Rock Walls. **Mixed Varieties. Packet 25c.**

STATICE (Sea Lavender)

A very popular flower that is used in combination with other ever lastings in winter bouquets.

SUWOROWI (Russian Statice) (A)—Long spikes closely set with bright rose blooms. Height 18 in. **Pkt. 10c, ⅛ oz. 25c.**

SINUATA (A)—A choice mixture of all colors. **Packet 10c, ¼ Ounce 25c.**

LATIFOLIA (H. P.)—Purplish-blue flowers, borne profusely on plants 2½ ft. high. **Packet 10c, ⅛ Ounce 40c.**

STOCKS (Gilliflower) (A)

One of the oldest and best loved garden flowers, being unsurpassed for brilliance of color, fragrance and profusion of bloom.

LARGE-FLOWERING DWARF, TEN WEEK STOCKS

A dwarf compact sort coming into flower quicker than the other types. Height 12 to 15 in. **Azure Blue—Canary Yellow—Crimson—Deep Rose—Flesh Pink—Lavender—Mixed. Each color, Pkt. 10c, ⅛ oz. 60c. Mixed, Pkt. 10c, ⅛ oz. 50c.**

STOKESIA (Cornflower Aster) (H. P.)

A hardy perennial about two feet high bearing large aster-like flowers from July till frost.

CYANEA—Lavender Blue. **Packet 10c, ⅛ Ounce 35c.**

MIXED—Blue and White. **Packet 10c, ⅛ Ounce 50c.**

SWEET PEAS (A)

SUMMER-FLOWERING SPENCER

Culture—Work soil at least eighteen inches deep, and use liberal amount of well-rotted cow manure. Plant seed about one inch deep and three inches apart. Later thin out the plants to six or eight inches apart. Do not water the seed until they have germinated and then give a good soaking.

SWEET PEAS

ASCOT—Pale Pink.

AUSTIN FREDERICK, IMP.—Rosy Lavender.

AVALANCHE—Pure White.

BARBARA—Soft Salmon Pink.

DOBBIE'S CREAM—Deep Cream.

PURPLE MONARCH—Deep Purple.

SUNSET—Bright Carmine Rose.

THE ADMIRAL—Violet Blue.

VENUS—Cream Pink, suffused salmon.

WELCOME—Dazzling Scarlet.

Each variety, Packet 10c, Ounce 30c, ¼ Pound 90c.

SUPERB MIXED—Containing a fine selection of the largest and most attractive named Spencer varieties. **Packet 10c, Ounce 20c, ¼ Pound 60c, Pound $1.75.**

G. & T. Co.'s FINE MIXED (A)—A fine mixture of the newest colors and shades. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

CUPID, Dwarf Mixed—An annual growing about 6 in. high and blooming all summer. All colors mixed. **Packet, 10c, Ounce 20c, ¼ Pound 60c.**

HARDY SWEET PEA—See Lathyrus.

SWEET WILLIAM (Dianthus Barbatus) (B)

A well known attractive free-flowering Biennial. Height 18 in. **Single Newport Pink—Pkt. 10c, ¼ oz. 40c. Single Dark Crimson—Pkt. 10c, ¼ oz. 25c. Single Finest Mixed—Pkt. 10c, ¼ oz. 25c. Double Finest Mixed—Pkt. 10c, ¼ oz. 30c.**

TAGETES (Miniature Marigold) (A)

SIGNATA PUMILA (A)—A dwarf compact Marigold with fern-like foliage covered with bright yellow blooms all season. Height 9 in. **Packet 10c, ¼ Ounce 40c.**

THUNBERGIA (A)

A rapid growing climber used extensively in hanging baskets, low fences, Etc.

MIXED—Shades of buff, white and orange, with dark eyes. Height four feet. **Packet 10c, ¼ Ounce 30c.**

TORENIA

FOURNIERI (A)—A splendid annual for hanging baskets, vases and borders. Covered the entire season with sky-blue flowers with bright yellow center. **Packet 10c, ⅛ Ounce 60c.**

TRITOMA (Red Hot Poker, Torch Lily)

HYBRIDA (H. P.)—Easily grown from seed, many flowering the first year if sown early. Very showy, ranging in color from pale yellow to deep orange. Blooms from August to October. Height three to four feet. **Pkt. 10c, ⅛ oz. 35c.**

TROLLIUS (Globe Flower)

Like huge buttercups. In bloom from May to August. They prefer a well drained, partly shady position. Height two feet.

EUROPAEUS (H. P.)—Golden Yellow. **Packet 25c.**

URSINIA

URSINIA—See page 4 for description.

VALERIANA (Garden Heliotrope) (H. P.)

Hardy perennial 2½ ft. high, with panicles of flowers with the odor of Heliotrope. **Pink—White. Each, pkt. 10c, ¼ oz. 30c.**

VERBENAS

A brilliant free-flowering annual, in bloom from July till frost.

MAMMOTH FLOWERING VARIETIES (A)—Blue shades, Scarlet, Golden Yellow, Pink, White, Mixed. Each color, Packet 10c, ⅛ Ounce 30c. Mixed, Packet 10c, ⅛ Ounce 25c.

COLLECTION—1 pkt. each of the above five varieties 40c.

NEW DWARF COMPACT VERBENAS—See page 4 for description.

VERBENA, VENOSA (Hardy Verbena) (H. P.)

Plants grow one foot high, bearing bright purple flowers all summer. **Packet 10c, ¼ Ounce 50c.**

VERONICA (Speedwell)

A perfectly hardy plant that will thrive under most any condition.

SPICATA (H. P.)—Bright blue flowers. In bloom June and July. Height 18 in. **Packet 10c, ⅛ Ounce 60c.**

POSTRATA (H. P.)—Bright blue flowers in June. Height 3 to 4 in. **Packet 15c, ⅛ Ounce 75c.**

VINCA (Peri-Winkle or Old Maid) (A)

Free blooming bedding plant with shiny, bright green foliage. Height 12 to 15 in. **White—Rose. Each, Packet 10c, ¼ Ounce 50c.**

VIOLA (Tufted Pansies) (H. P.)

Closely related to Pansies and very free blooming. Dwarf, compact plants unexcelled for Rock Gardens.

BLUE GEM (Jersey Gem)—Deep violet-blue, flowers from May until fall. **Packet 25c.**

APRICOT—Rich apricot shade, blending into a deep orange center. **Packet 15c.**

CHOICE MIXED—A mixture of all shades. Packet 10c, ⅛ Ounce 50c.

VIOLA ODORATA—Single sweet violet. **Pkt. 15c, ⅛ oz. 60c.**

WALLFLOWER (T. P.)

Beautiful fragrant flowers of many colors, blooming in the early spring. Height two feet. **Double Mixed. Pkt. 15c.**

ZINNIAS (Youth and Old Age) (A)

Showy plants bearing a profusion of brilliant colored flowers throughout the season. One of our most popular annuals, succeeding with everyone.

ZINNIAS

GIANT DOUBLE DAHLIA-FLOWERED

Plants grow 2 to 3 ft. high, bearing huge, fully double flowers, which resemble the Dahlia.

CANARY BIRD*—Rich canary yellow.

CRIMSON MONARCH*—Deep Crimson.

DREAM*—Deep Lavender.

EXQUISITE*—Light rose with deep rose center.

GOLDEN STATE*—Yellow-orange, turning to orange.

OLD ROSE*—True old rose shade.

ORIOLE—A bicolor flower of orange and gold.

SCARLET FLAME—Brilliant Scarlet.

POLAR BEAR—Pure White. **Each color, Pkt. 10c, ¼ oz. 50c.**

FINEST MIXED—A select mixture of all colors. **Packet 10c, ¼ Ounce 35c.**

COLLECTION—1 pkt. each of the above six varieties marked* 50c.

CALIFORNIA GIANTS

Plants are taller than the Dahlia-Flowered Type. Growing 3 to 4 ft. high, bearing many long stems of mammoth flowers.

BRIGHTNESS*—Bright Pink.

DAFFODIL*—Canary Yellow.

GRENADIER*—Dark Red.

LAVENDER GEM*—Deep Lavender.

MISS WILLMOTT—Soft Pink.

ORANGE QUEEN—Golden Orange.

SCARLET GEM*—Glowing Scarlet.

PURITY*—Pure White. **Each color, Pkt. 10c, ¼ Oz. 35c.**

FINEST MIXED—A choice mixture of all colors. **Packet 10c, ¼ Oz. 30c.**

COLLECTION—1 pkt. each of the above six varieties marked* 50c.

LILLIPUT OR POMPON

Small compact flowers on strong stems, fine for cutting. **Canary Yellow—Crimson Gem—Rose Pink—White Gem—Mixed. Each color, Packet, 10c, ¼ Ounce 35c. Mixed, Packet 10c, ¼ Ounce 25c.**

VARIOUS ZINNIAS

DWARF DOUBLE MIXED (Cut and Come Again)—Plants grow about 18 in. high, bearing large double flowers in good clear colors. **Mixed. Packet 10c, ¼ Ounce 25c.**

CURLED AND CRESTED MIXED—The petals are curled and crested into many graceful forms. Comprising all the brilliant colors. **Packet 10c, ¼ Ounce 30c.**

PUMILA PICOTEE DELIGHT MIXED—A fine cut flower, flowers medium size, petals curled with picotee markings. **Packet 10c, ¼ Ounce 50c.**

HAAGEANA HYBRIDS (Mexican Zinnia)—A dwarf variety about 10 in. high bearing small double flowers in many attractive colors. **Packet 10c, ¼ Ounce 50c.**

FANTASY—See page 4 for description.

ROCK GARDEN MIXTURE

A mixture of all the dwarf annual and perennial seeds that are suitable for the Rock Garden. **Packet 10c, Ounce 25c.**

MIXED FLOWER SEEDS (For Broadcasting)

A mixture of all the Flower Seed listed in our catalogue. Excellent for broadcasting in corners, embankments, and other bare spots of the garden. **Packet 10c, Ounce 25c.**

ANNUAL GARDEN COLLECTION

1 Pkt. each of 10 Popular and easily grown Annuals, 75c.

PERENNIAL GARDEN COLLECTION

1 Pkt. each of 10 Popular and easily grown Perennials, $1.00.

ANNUAL PLANTS

The following plants will be ready for delivery May 1st. They are all grown in 3-inch pots under our supervision and are guaranteed true to color. Most of them will be in bud or bloom when you receive them, and will produce a good display in a very short time.

AGERATUM—Dwarf Blue. 75c Dozen.

ALYSSUM—Dwarf White. 75c Dozen.

AMARANTHUS—Molten Fire. $1.00 Dozen.

ANTIRRHINUM—Giant Flowering Dwarf and Tall. $1.00 Dozen.
(Orange, Crimson, Scarlet, Yellow, Salmon Pink, White.)

ASTERS—California Giants Improved.
(Apple Blossom, Carmine, Dark Purple, Deep Rose, Light Blue, White). **75c Dozen.**

CANNAS—All colors, **$1.00 Dozen.**

CALENDULA—Orange King, Lemon Queen, 75c Dozen.

CARNATIONS—Marguerite Mixed, $1.00 Dozen.

COLEUS—75c Dozen.

COSMOS—Early Single Mixed, Late Single Mixed. 75c Doz.

DAHLIAS—Unwins Dwarf, $1.00 Dozen.

DUSTY MILLER—75c Dozen.

GAILLARDIA—Indian Chief. $1.00 Dozen.

MOON VINE—Heavenly Blue. $1.00 Dozen.

HELIOTROPE—$1.00 Dozen.

KOCHIA—Mexican Firebush. 75c Dozen.

LANTANAS—Mixed. $1.00 Dozen.

LOBELIA—Dwarf Blue. 75c Dozen.

MARIGOLD—Guinea Gold. $1.00 Dozen.

MARIGOLD—Little Brownie. 75c Dozen.

NASTURTIUM—Golden Gleam. $1.00 Dozen.

NEMESIA—Blue Gem. $1.00 Dozen.

PETUNIA—Rosy Morn. 75c Dozen.

PETUNIA—Balcony, Blue, Rose, Red, White, **75c Dozen.**

PETUNIA—Fringed Mixed. $1.00 Dozen.

PHLOX—Dwarf Mixed. 75c Dozen.

SALPIGLOSSIS—Mixed. $1.00 Dozen.

SALVIA—Bonfire. 75c Dozen.

STOCKS—Mixed. $1.00 Dozen.

VERBENA—Mixed. 75c Dozen.

ZINNIA—Fantasy. $1.00 Dozen.

ZINNIA—Dahlia Flowering.
(Golden State, Crimson Monarch, Dream, Exquisite, Polar Bear, Old Rose.) **75c Dozen.**

MONTBRETIAS

One of the brightest of our summer-flowering bulbs. Plant outside during April and May, 4 inches apart. Protect over the winter with a heavy mulch. Plants attain a height of 3-4 feet.

CALIFORNIA—Deep yellow.

CROECUS—Apricot-yellow.

FIREKING—Brilliant scarlet.

KING EDMUND—Orange-yellow.

LORD NELSON—Bright orange.

METEOR—Orange with red tips.

Any of above varieties 10c each, $1.00 dozen.

HARDY CHRYSANTHEMUMS

Exhibition or Large Flowered Type

HARVARD—Deep Red, blooms in November.

GOLDEN GLOW—Yellow, blooms in August.

SMITH'S ENCHANTRESS—Pink, blooms in October.

OCONTO—Pure White, blooms in October.

Pompon or Medium Flowered Type

UVALDA—Pure White.

ANNA L. MORAN—Bronze.

LEILAH—Rose Pink.

LILLIAN DOTTY—Shell Pink.

MARION HATTON—Yellow.

LUCIFER—Deep Crimson.

CHRYSANTHEMUMS

Button Type

SKIBO—Yellow.

COMETO—Pink.

OURAY—Red.

WHITE MIDGET—White.

Single Flowered Type

BRONZE BUCKINGHAM — Light Bronze.

MRS. WM. BUCKINGHAM — True Pink.

DONALD WELLS—Pure White.

GOLD LACE—Yellow.

DAZZLER—Scarlet.

BRILLIANT—Violet Rose.

Any of above, 15c each, $1.50 dozen.

TALL HARDY GARDEN PHLOX

2-3 Ft. High

PHLOX DECUSSATA

VON LASSBURG—White.

RHINLANDER—Salmon Pink.

FERDINAND CORTEZ—Red.

FIREBRAND—Vermillion, Scarlet.

L'ESPERANCE—Orchid.

THOR—Salmon Rose.

MISS LINGARD (Suffruticosa)—White (early flowering).

Any of above 20c each, $2.00 dozen, 3-inch pots.

HARDY PERENNIAL AND ROCK GARDEN PLANTS

The following list contains many choice varieties and with the exception of a few varieties are all grown in 3-inch pots that are carried over in cold frames. Ready for shipping from March 15 to June 15, and from Sept. 15 to Nov. 30.

The varieties marked * are suitable for Rock Gardens.

Except where otherwise noted, plants are **20c each; $2.00 doz.; $15.00 per 100.**

	Color	Height	Location	Blooms
Achillea Millefolium Roseum	Rose	2 ft.	Sun	July-Oct.
Achillea Tomentosa	Yellow	1 ft.	Sun	June
Aconitum Fischeri	Blue	2 ft.	Sun	Sept.
*Ajuga Genevensis	Blue	6 in.	Shade	May
*Alyssum Saxatile Compactum	Yellow	1 ft.	Sun	April-May
Anchusa Dropmore	Blue	4 ft.	Sun	May-August
*Anchusa Myosotidiflora	Blue	1 ft.	Sun-shd.	May
*Anemone Pulsatilla	Violet	9 in.	Shade	April-May
Anemone Hupehensis	Pink	1 ft.	Shade	Sept.-Oct.
Anemone Alice	Rose	3 ft.	Shade	Sept.-Oct.
*Aquilegia Alpina	Blue	6-10 in.	Sun-shd.	May-June
Aquilegia Mrs. Scott Elliott's Strain	Mixed	2 ft.	Sun-shd.	May-June
*Arabis Alpina	White	6 in.	Sun-shd.	April-May
*Armeria Laucheana	Rosy-Crimson	6 in.	Sun-shd.	Summer
Artemisia, Silver King	White Leaves	3 ft.	Sun	June-July
*Aster, Mauve Cushion	Mauve	9 in.	Sun	Oct.-Nov.
Aster, Blue Gem	Blue	4 ft.	Sun	Sept.-Oct.
Aster, Queen Mary	Blue	2½ ft.	Sun	Sept.-Oct.
*Aster, Alpinus	Blue	6-8 ft.	Sun	May-June
*Aubrietia Leichtini	Mixed	4-5 in.	Sun	April
*Bellis Perennis	Mixed	6 in.	Sun-shd.	April-May
Campanula Calycanthema	Blue	2 ft.	Sun	June
Campanula Calycanthema	White	2 ft.	Sun	June
Campanula Calycanthema	Pink	2 ft.	Sun	June
*Campanula Garganica, **25c ea., $2.50 doz.**	Blue	4 in.	Sun	June
*Campanula Carpatica	Blue	8 in.	Sun	July-Aug.
*Campanula Carpatica	White	8 in.	Sun	July-Aug.
*Campanula Pusilla	Blue	4 in.	Sun	May-June
*Campanula Rotundifolia	Blue	1 ft.	Sun	June-Oct.
Centaurea Macrocephala	Yellow	3 ft.	Sun	July-Aug.
Centaurea Montana	Blue	2 ft.	Sun	July-Sept.
*Cerastium Tomentosum	White	6 in.	Sun	May-June
Chelone Lyoni	Red	2 ft.	Sun-shd.	Aug.-Sept.
Chrysanthemum Alaska (Shasta Daisy)	White	2 ft.	Sun	June-July
*Cheiranthus Allioni	Orange	1 ft.	Sun	June
Coreopsis	Yellow	2 ft.	Sun-shd.	June-Oct.
Delphinium Belladonna	Lt. Blue	3 ft.	Sun	June-July
Delphinium Bellamosa	Dk. Blue	3 ft.	Sun	June-July
Delphinium Grandiflorum (Chinese)	Dk. Blue	1 ft.	Sun	June-July
Delphinium (Wrexham Strain Hybrids) **(30c each, $3.00 dozen)**	Blue Shades	5-8 ft.	Sun	June-July
*Dianthus Allwoodi	Mixed	8-10 in.	Sun	May-June
Dianthus Barbatus (Sweet William)	Newport-Pink	1 ft.	Sun	May
Dianthus Barbatus (Sweet William)	Dp. Red	1 ft.	Sun	May
Dianthus Barbatus (Sweet William)	White	1 ft.	Sun	May
*Dianthus Deltoides	Rose	8 in.	Sun	May-June
*Dianthus Deltoides	White	8 in.	Sun	May-June
*Dianthus Plumarius Semp. Dwarf	Mixed	8 in.	Sun	May-Sept.
Digitalis (Foxglove)	White	4-5 ft.	Sun	June-July
Digitalis (Foxglove)	Rose	4-5 ft.	Sun	June-July
Digitalis (Foxglove)	Purple	4-5 ft.	Sun	June-July
Digitalis, Grandiflora	Yellow	2-3 ft.	Sun	June-July
Eupatorium Coelestinum (H. Ageratum)	Purple	1 ft.	Sun	Aug.-Oct.
Gaillardia Portola Hybrids	Mixed	2 ft.	Sun	May-Oct.
Gypsophila, Bristol Fairy (Clumps) **(30c each, $3.00 dozen)**	White	2 ft.	Sun	June-July
*Gypsophila Repans	White	Trailing	Sun	June
Helenium Autumnale	Yellow	4-5 ft.	Sun	Sept.-Oct.
Hemerocallis Thunbergi (Day Lily)	Yellow	3 ft.	Sun-shd.	July-Aug.
*Helianthemum Mutablix (Rock Rose)	Mixed	8-12 in.	Sun	June-July
Heuchera Sanguinea (Coral Bells)	Crimson	1 ft.	Sun	June-Sept.
Hibiscus (Clumps)	Red	5-6 ft.	Sun-shd.	July-Aug.
Hibiscus (Clumps)	Pink	5-6 ft.	Sun-shd.	July-Aug.
Hibiscus (Clumps)	White	5-6 ft.	Sun-shd.	July-Aug.
Hollyhock, Double (Clumps)	Rose	5-8 ft.	Sun	July
Hollyhock, Double (Clumps)	White	5-8 ft.	Sun	July
Hollyhock, Double (Clumps)	Pink	5-8 ft.	Sun	July
Hollyhock, Double (Clumps)	Yellow	5-8 ft.	Sun	July
*Hypericum Reptans	Yellow	4-6 in.	Sun	July-Aug.
*Iris Cristata	Blue	4-5 in.	Sun	May
Iris German over 50 Varieties **(20c to 75c each)**				
*Iris Pumila	Mixed	4 in.	Sun	April-May
*Iberis Sempervirens (Hardy Candytuft)	White	5 in.	Sun	April-May
*Lavender Vera	Blue	1 ft.	Sun	July-Sept.
*Leontopodium Alpinum (Edelweiss)	White	4 in.	Sun	June-July
*Linum Flavum (Flax)	Yellow	1 ft.	Sun	June-July
*Linum Perenne (Flax)	Blue	18 in.	Sun	May-Sept.
Lobelia Cardinalis	Red	2-3 ft.	Shade	July
*Lychnis Alpina	Rose	6 in.	Sun	April
*Matricaria (Feverfew)	Yellow	10-12 in.	Sun	June-Aug.
Monarda (Bergamot)	Red	3 ft.	Sun	June-Aug.
*Myosotis Palustris (Everblooming Forget-me-not)	Blue	8 in.	Shade	Summer
*Nepeta Mussini	Mauve	8 in.	Sun	April-June
Papaver Orientale	Or.-Red	3 ft.	Sun	June-July
Papaver Orientale	Blood-Rd.	3 ft.	Sun	June-July
Papaver Orientale	Salmon Pink	3 ft.	Sun	June-July
Peonies, strong roots, **30c ea., $3.00 doz.**	Red, White, Pink	3 ft.	Sun	May

Hardy Perennial and Rock Garden Plants—(Continued)

	Color	Height	Location	Blooms
*Phlox Amoena	Pink	4-6 in.	Sun	April-May
*Phlox Divaricata Canadensis	Blue	10 in.	Sun-shd.	May
*Phlox Ovata (Carolina Phlox)	Rosy-Red	1 ft.	Sun	June-July
*Phlox Sublata Atropurpura	Blood-Rd.	3 in.	Sun	April-May
*Phlox Sublata Vivid	Rose-Red	3 in.	Sun	April-May
Physostegia Virginica	Pink	3 ft.	Sun-shd.	July-Aug.
Platycodon Mariesi	Blue	1 ft.	Sun	July-Oct.
*Plumbago Larpentae	Blue	6 in.	Sun	July-Oct.
*Potentilla Hybrid	Pink	1 ft.	Sun	June-Sept.
*Primula Cashmeriana **(30c each, $3.00 dozen)**	Blue	10 in.	Sun-shd.	March-May
*Primula Veris	Mixed	6 in.	Sun-shd.	April-May
*Primula Vulgaris	Yellow	6 in.	Sun-shd.	April-May
Pyrethrum, Roseum	Pink	2 ft.	Sun	May-June
Pyrethrum Rubra	Red	2 ft.	Sun	May-June
Salvia Greggi **(30c each, $3.00 dozen)**	Pink	2 ft.	Sun	July-Oct.
Salvia Pitcheri	Blue	3 ft.	Sun	September
*Saponaria Ocymoides	Pink	Trailing	Sun	May-July
Scabiosa Caucasica	Lilac-Bl.	2 ft.	Sun	June-Aug.
Scabiosa Japonica	Lavender Blue	2 ft.	Sun	June-Sept.
Sedum (25 varieties)				
Sempervivum (20 varieties)				
*Silene Orientalis	Rose	6 in.	Sun-shd.	June-Sept.
*Thymus Citriodorus	Yellow	4 in.	Sun	June-July
Tritoma, Hybrids (Red Hot Poker)	Mixed	2 ft.	Sun	Aug.-Sept.
*Tunica Saxifraga	Pink	6 in.	Sun-shd.	July-Sept.
*Veronica Incana	Purple	1 ft.	Sun	July-Aug.
Veronica Longifolia Subessilis	Dp. Blue	2 ft.	Sun	July-Oct.
*Veronica Repens	Lt. Blue	3 in.	Sun	May
Veronica Royal Blue	Blue	18 in.	Sun	July
*Veronica Rupestris	Blue	3 in.	Sun	June
Veronica Spicata	Blue	18 in.	Sun	June-July
*Verbena Venosa	Purple	6 in.	Sun	June-Oct.
*Vinca Minor (Periwinkle)	Blue	Trailing	Sun-shd.	April-May
*Viola Ilona	Red	5 in.	Sun	May-Oct.
*Viola Jersey Gem **(25c ea., $2.50 doz.)**	Violet	4 in.	Sun	April-Oct.
*Viola Suttons Apricot **(25c each, $2.50 dozen)**	Apricot	5 in.	Sun	May-Oct.
*Viola White Perfection	White	5 in.	Sun	April-Oct.
*Viola Yellow Gem	Yellow	5 in.	Sun	April-Oct.

HARDY CLIMBING PLANTS

AMPELOPSIS VEITCHI (Boston Ivy)—Most popular of all climbing plants, attaining a height of 30 ft. within two or three years. Will cling to any surface, stone or wood. Foliage rich green which turns to shades of crimson and orange in the fall. Strong 2 year old field grown plants. **35c each.**

CELASTRUS SCANDENS (Bittersweet)—Attractive light green foliage with yellow flowers during June, followed by bright orange berries which remain on all winter. Strong 2 year old plants. **35c each.**

CLEMATIS—Paniculata—Profusion of fragrant white flowers from August till late fall. Strong 2 year old plants. **35c each.**

CLEMATIS—Jackmani—Large flowers of rich purple. Strong 2 year old plants. **75c each.**

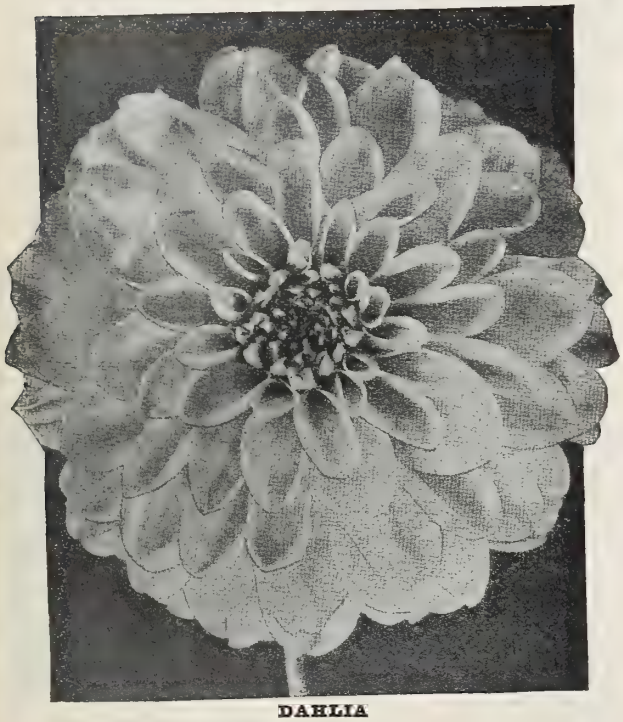
WISTERIA—SINENSIS (Chinese Wisteria)—A very beautiful climber with purple flowers—strong 2 year old plants. **50c each.**

HEDGE PLANTS

CALIFORNIA PRIVET—2 years old, 18-24 inches. **25 for $1.50; $5.00 per 100.**

BERBERIS THUNBERGI (Japanese Barberry)—3 year old plants, 15-18 in. **15c each; 10 for $1.25; $10.00 per 100.**

SUMMER-FLOWERING BULBS



DAHLIA

POMPON DAHLIAS

LITTLE DAVID—Orange scarlet.
BOB WHITE—Pure white.
AIMEE—Bronze.
ROSEA—Rose.
TAKAS PURPLE—Carmine purple.
SUNNY CAL—Bright yellow.
Any of above, 30c each, $3.00 dozen.

SINGLE DAHLIAS

YELLOW—WHITE—PINK—RED—BICOLOR
Any of above 30c each, $3.00 dozen.

DAHLIAS UNNAMED

These are all good large varieties. Red, Pink, Yellow, Lavender, White. **Price 15c each, $1.50 dozen.**

SELECT COLLECTION OF DAHLIAS

Our list of Dahlias now includes many of the higher priced varieties that are now available at more attractive prices. We offer strong Tubers for spring delivery and can furnish any of the varieties marked * in plants at half the price of Tubers.

***AMBASSADOR (S. C.)**—A fine flower of soft yellow shading to salmon-pink. **75c each, $7.50 dozen.**
***AMERICAN TRIUMPH (C)**—Rich red of intense beauty. **50c each, $5.00 dozen.**
AVALON (F. D.)—Deep canary yellow with strong stems. **25c each, $2.50 dozen.**
***CHEMAR'S EUREKA (F. D.)**—White with light touch of Lavender. **$1.00 each, $10.00 dozen.**
***CITY OF TRENTON (I. D.)**—Rich tangerine. **50c each, $5.00 dozen.**
COUNTESS OF LONSDALE (S. C.)—Deep salmon red, abundant bloomer. **25c each, $2.50 dozen.**
ELLINOR VANDERVEER (F. D.)—Large blooms of rose-pink. **25c each, $2.50 dozen.**
F. W. FELLOWS (S. C.)—Deep coral-red, excellent as a cut flower. **50c each, $5.00 dozen.**
JANE COWL (I. D.)—Buff and old gold blooms of giant size. **30c each, $3.00 dozen.**
JERSEY'S BEACON (F. D.)—Chinese-scarlet blooms of good size. **25c each, $2.50 dozen.**
JERSEY'S BEAUTY (F. D.)—The finest true pink. **25c each, $2.50 dozen.**
***KATHLEEN NORRIS (I. D.)**—Massive blooms of rose pink. **50c each, $5.00 dozen.**
***KEMP'S FORT MOMMOUTH (I. D.)**—Giant flower of rich crimson petals tipped violet. **50c each, $5.00 dozen.**
***KEMP'S VIOLET WONDER (I. D.)**—Giant Violet. **50c each, $5.00 dozen.**
KENTUCKY (F. D.)—A sport of Jersey's Beauty, brilliant salmon-orange. **35c each, $3.50 dozen.**
MARGARET WOODROW WILSON (I. D.)—Large deep flowers of pink and creamy white. **30c each, $3.00 dozen.**
***MARYLAND'S CHIEFTAIN (I. D.)**—Pale orange yellow with center of grenadine pink. **$1.00 each, $10.00 dozen.**
***MARYLAND'S GLORY (F. D.)**—1931 Roll of Honor. Large deep flower of deep red. **$1.50 each, $15.00 dozen.**
MRS. I. deVER WARNER (I. D.)—Deep mauve-pink. **25c each, $2.50 dozen.**
***QUEEN OF THE GARDEN BEAUTIFUL (F. D.)**—Giant primrose-yellow. **50c each, $5.00 dozen.**
SAGAMORE (F. D.)—Light apricot-buff, splendid for cutting. **25c each, $2.50 dozen.**
THE WORLD (F. D.)—Rich rosy magenta with silver shadings. **35c each, $3.50 dozen.**
***THOMAS EDISON (F. D.)**—Large blooms of rich royal purple. **50c each, $5.00 dozen.**
***TREASURE ISLAND (F. D.)**—Bright apricot, suffused rose. **50c each, $5.00 dozen.**
TRENTONIAN (F. D.)—Blending of old gold, amber and bronze. **35c each, $3.50 dozen.**

COLLECTION OF DAHLIAS

COLLECTION OF EXHIBITION DAHLIAS FOR $2.00—One each of ten choice varieties. Regular value, $4.00.

GLADIOLUS

One of the most popular of all summer-flowering bulbs. Plant outdoors as soon as frost is out of ground 4 inches deep and at least 6 inches apart.

Ten Super Gladiolus

BARON HULOT—Rich violet-blue.
CARMEN SYLVA—The best pure-white.

GLADIOLUS

CHARLES DICKENS — Deep purple-violet.

HENRY FORD—Royal purple.

ORANGE QUEEN — Apricot, shading to a brilliant orange.

PAUL PFITZER — Rich amaranth red with a velvety sheen.

PFITZER'S TRIUMPH — One of the largest and finest Gladiolus. Brilliant salmon-orange with deep markings in throat.

PHANOMEN—A combination of soft pink and yellow.

ROSE ASH—Very beautiful coloring of old rose tones.

SCARLET WONDER—A large flower of rich scarlet.

Price of any of the above varieties—6c each, 65c dozen, $4.00 per 100.

Select Gladiolus

AMERICA — Lavender - pink flowers of good size.

BLUE JAY—Porcelain blue.

CRIMSON GLOW — Glowing crimson-scarlet.

DR. F. E. BENNETT — Deep red, suffused scarlet.

E. J. SHAYLOR—Beautiful deep rose-pink.

GOLDEN MEASURE — A deep shade of yellow.

LOS ANGELES—Bright pink with carmine blotch in throat.

MRS. DR. NORTON — Delicate cream pink.

MRS. F. C. PETERS—Orchid-lavender with crimson markings.
MRS. FRANCIS KING—Brilliant vermillion-scarlet.
MRS. FRANK PENDLETON—Salmon-pink with large blotch of velvety crimson in throat.
MRS. LEON DOUGLAS—A lovely shade of coral-rose striped with flame-scarlet.
PEACE—White with lilac markings on lower petals.
SCHWABEN—Canary yellow.
VIRGINIA—Large flowers of flaming-scarlet.

PRICE OF ANY OF THE ABOVE VARIETIES—5c EACH, 50c DOZEN, $3.50 PER 100.

EXTRA FINE MIXTURE—A selection of only the better named varieties in a wide range of colors, **40c per dozen, $2.50 per 100.**

CALADIUMS ESCULENTUM (Elephant's Ear)

One of the finest of the ornamental foliage plants, growing six to ten feet high.

FIRST SIZE—5c each, 50c dozen.
SECOND SIZE—8c each, 80c dozen.
MAMMOTH—10c each, $1.00 dozen.

TUBEROSES

DOUBLE PEARL—One of the most fragrant and popular summer flowering bulbs. Pure white. **4c each, 40c dozen, $3.00 per 100.**

HARDY GARDEN LILIES

AURATUM (Golden-Rayed Lily)—Pure white spotted crimson, very fragrant, 3-5 ft. high. Plant 9 inches deep. Blooms in July and August. 9-11 in. **30c each, $3.00 dozen.** 11-13 in. **40c each. $4.00 dozen.**

CANADENSE—Drooping flowers, varying from yellow to orange. Plant 5 inches deep. Blooms in June and July. 5-6 feet high. **20c each, $2.00 dozen.**

HENRYI—Rich deep orange-yellow, 8 ft. high. Plant 10 inches deep. Blooms in August and September. **30c each, $3.00 dozen.**

REGALE (Royal Lily)—White, suffused pink, yellow at the center, very fragrant. 6-8 ft. high. Plant 9 inches deep. Blooms in July. **7-8 in., 15c each, $1.50 dozen; 8-9 in., 25c each, $2.50 dozen.**

SPECIOSUM ALBUM—Pure white Lilies. Bloom in July and August. Plant 9 in. deep. 3-5 ft. high. 9-11 in. **30c each, $3.00 dozen.** 11-13 in. **40c each, $4.00 dozen.**

SPECIOSUM MAGNIFICUM—White, spotted and bordered with ruby-carmine. Plant 9 inches deep. Blooms in July and August. 3-5 ft. high. 9-11 in. **30c each, $3.00 dozen.** 11-13 in. **40c each, $4.00 dozen.**

TIGRINUM SPLENDENS (Tiger Lily)—Rich, dark salmon spotted orange. Plant 10 inches deep. Blooms in August and September. 4-5 ft. high. **15c each, $1.50 dozen.**

TIGRINUM FLOREPLENO (The Double Tiger Lily)—15c each, $1.50 dozen.

HARDY FLOWERING SHRUBS

ABELIA GRANDIFLORA—One of the finest evergreen shrubs, blooming continuously from early summer until frost. Flowers white tinted lilac. Height 3-4 ft. 18-24 in. plants. **75c each.**

ALMOND, FLOWERING (Amygdalus)—A lovely shrub growing 5-6 ft. high with fragrant pink flowers in May. 2-3 ft. plants **75c each.**

ALTHAEA (Rose of Sharon)—A valuable hardy shrub which blooms from August to October. We offer in three colors, Red, Purple, White. Height, 10-12 ft. 2-3 ft. plants. **35c each.**

BUDDLEIA (Butterfly Shrub)—A very desirable shrub beginning to bloom in July and continuing until frost. Color: Violet, Mauve. Height 5-6 ft. 2-3 ft. plants. **50c each.**

CYDONIA JAPONICA (Japanese Quince)—Showy shrubs with a profusion of scarlet flowers in April. Height 4-6 ft. 12-18 in. plants. **35c each.**

DEUTZIA GRACILIS—A beautiful dwarf shrub covered with pure white flowers in April and May. Height 2-3 ft. 15-18 in. plants. **35c each.**

DEUTZIA (Pride of Rochester)—A tall growing variety with double white flowers tinged pink. Blooms in May. Height 8-10 ft. 2-3 ft. plants. **35c each.**

FORSYTHIA—SUSPENSA (Weeping Forsythia)—A graceful drooping shrub with golden yellow flowers in April. Height 4-6 ft. 2-3 ft. plants. **35c each.**

HYDRANGEA—A. G. SNOWHILL—A very hardy shrub with snow-white flowers from July until frost. Height 4-5 ft. 2-3 ft. plants. **35c each.**

HYDRANGEA—P. G. PEEGEE—A taller growing variety with white flowers which turn to pink. Blooms from July until frost. Height 6-8 ft. 2-3 ft. plants. **35c each.**

KERRIA (Double Globeflower)—Golden yellow flowers in bloom from June until October. Height 4-5 ft. 12-18 in. plants. **50c each.**

KOLKWITZIA (Beauty Bush)—A beautiful shrub from China with masses of delicate pink flowers in May and June. Height 5-6 ft. 18-24 in. plants. **50c each.**

PHILADELPHUS (Mock Orange)—Lemoine—Masses of fragrant white flowers in May. Height 3-5 ft. 18-24 in. plants. **35c each.**

PRUNUS, PISSARDI (Purple Leaf Plum)—A beautiful shrub with white flowers in April. Foliage is crimson which changes to rich purple. Height 12-15 ft. 3-4 ft. plants. **50c each.**

SYRINGA OR LILAC—Common Purple, 2-3 ft. plants. **35c each.**

SYRINGA OR LILAC—Named Varieties, in all colors, 2-3 ft. plants. **75c each.**

SPIRAEA—Anthony Waterer—A dwarf shrub with crimson flowers in bloom from May to October. Height 2-3 ft. 18-24 in. plants. **35c each.**

SPIRAEA—Van Houttei—An excellent shrub with white flowers in May. Height 6-8 ft. 2-3 ft. plants. **35c each.**

VIBURNUM PLICATUM (Japanese Snowball)—Beautiful balls of pure white flowers in May and June. Height 6-8 ft. 2-3 ft. plants. **50c each.**

WEIGELA—Eva Rathke—One of the most popular shrubs with red flowers in bloom all summer. Height 4-5 ft. 2-3 ft. plants. **50c each.**

WEIGELA—Rosea—A little taller growing than Eva Rathke, and has rosy-pink flowers. Height 6-8 ft. 2-3 ft. plants. **50c each.**

CANNA ROOTS

Plant outside after frost is out of ground and they will bloom from early summer until frost. Plant 18 inches apart.

CITY OF PORTLAND—One of the best pink sorts, 4½ feet high.
FLORENCE VAUGHAN—Yellow spotted scarlet, 5 feet.
HUNGARIA—Beautiful clear rose, 3½ feet.
KING HUMBERT—Orange-scarlet with bronze foliage, 5 ft.
KING HUMBERT YELLOW—Yellow with red spots, 5 feet.
RICHARD WALLACE—Canary yellow, 4½ feet.
THE PRESIDENT—Rich glowing scarlet, 5 feet.

Price of any of above varieties—5c each, 50c dozen, $3.50 per 100.

PLANTS—ROOTS—TREES

FROST-PROOF CABBAGE PLANTS

WILL MATURE HEADS TWO TO THREE WEEKS EARLIER THAN YOUR HOME-GROWN PLANTS.

EARLY JERSEY WAKEFIELD, CHARLESTON WAKEFIELD, SUCCESSION, and EARLY FLAT DUTCH. (COPENHAGEN MARKET ready about April 1st.)

These plants are grown in the open field during the fall and winter months, which causes them to make a slow, tough, hardy growth—so hardy that the outer leaves turn to a reddish brown. They can be shipped to distant points without danger of spoiling, and should be planted in the open ground from four to five weeks earlier than frame plants.

They will stand a temperature of 10 to 15 degrees above zero without injury. Will do very much better planted early, as they will take root and start to grow as soon as warm weather sets in.

Orders filled from December 1st until May 1st. We do not advise planting later than this time.

Prices by Parcel Post, postage paid. In lots of 100 to 300 plants, **40c per 100 plants;** 500 plants for **$1.50;** 1,000 or more at **$2.25** per 1,000 plants.

Orders are filled by the 100, not 250 or 350. These prices are for even quantities of one variety to package; if you order 200 of one variety and 300 of another variety you would pay at the 100 rate.

Prices by Express, buyer paying express charges. In lots of 1,000 to 4,000 plants at **$1.25** per 1,000; 5,000 or more at **$1.00** per 1,000. Plants packed for express shipment, 1,000 or 2,000 plants of a variety to package, they weigh about 25 pounds per thousand plants, packed for shipment.

TERMS, CASH WITH ORDER, PLEASE
No Plants Shipped C. O. D.

STRAWBERRY PLANTS

Early spring, about March or April, is the most logical time (for Maryland) to transplant strawberry plants. They will grow in light sandy soil and heavy clay soil, responding readily to fertile and well-drained soils. Give plenty of moisture when fruiting.

Stable or barnyard manure will help to give them best results. When plants arrive, if dry, dip in water, allowing to "plump up," before setting out. Plant in rows, 3½ to 4 feet apart with plants set 15 to 24 inches apart in the row. In winter cover with straw, and in early spring remove from plants and allow it to remain on ground as a mulch.

We offer the following best and standard varieties:

DORSETT **FAIRFAX**
(Early Varieties)

These two are new and both known for their vigor and productiveness.

DORSETT is medium light in color and retains its lightness.
FAIRFAX is medium dark, turning darker, almost to purple before wilting.

Per 50—$1.00; Per 100—$1.65.

PREMIER—Early. One of the best for any soil.
BIG JOE—Mid-season. Large and vigorous.
CHESAPEAKE—Late. Especially good for home and market.

Per 50—75 cents; Per 100—$1.25.

MASTODON—Everbearing. Supreme among the Everbearing berries.

Per 50—80 cents; per 100—$1.50.
Add 10 cents per 100 for postage.

GERMACO HOTKAPS

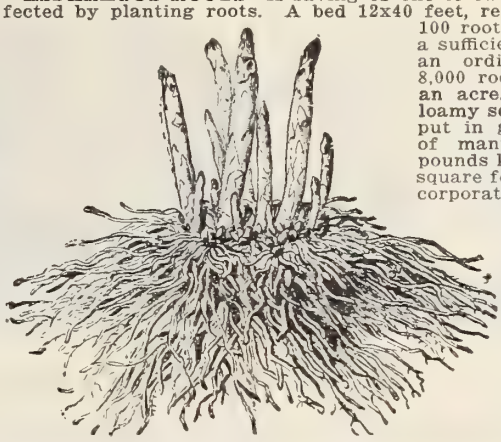
Besides protecting the plant from the elements and from insects, "Hotkaps" are worth their cost alone because they aid in maturing crops earlier. That is the all-important thing to the grower, FOR IT MEANS THAT HE CAN BE FIRST TO MARKET AND SO COMMAND A BETTER PRICE FOR HIS CROP. Thus "Hotkaps" far more than pay for themselves. They represent one of the best investments a farmer can make. Thousands have proved it; thousands more are discovering it every season.

Prices

100 Hotkaps and Garden Setter and Tamper, pkg.	**$2.50**
250 Hotkaps and Garden Setter and Tamper, pkg.	**3.75**
1,000 Hotkaps, only, per M.	**10.25**
5,000 Hotkaps, only, per M	**10.10**
10,000 Hotkaps, only, per M	**10.00**
Steel Hotkap Setter and Tamper, set	**1.50**
Garden Setter (paper), each	**.50**
Steel Tamper, each	**.25**

ASPARAGUS ROOTS

ASPARAGUS ROOTS—A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 8,000 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants 15 inches apart. In field culture rows are placed four feet apart.



MARY WASHINGTON (Rust-proof) — Early and vigorous. Firm and tender roots, richly flavored. By far the best. Per 100, **$1.25;** Per 1,000, **$10.00.** Postage, 10 cents per 100 extra.

RHUBARB ROOTS

Rhubarb roots set in the spring, will give delicious stalks the following spring. When setting the roots, place crowns 2 inches under the soil and set 3 by 4 feet apart. Give a liberal dressing of manure each spring. If possible, plant where soil is continuously moist. **15 cents each, $1.50 per dozen.** Postage, on one to three roots, 10 cents extra.

BLACKBERRIES

ELDORADO **SNYDER** (Very hardy)

Price, 15c each; $1.00 per dozen. If by mail add 10c each.

CURRANTS

FAY'S PROLIFIC
Price, 40c each; $4.00 per dozen. If by mail add 10c each.

RASPBERRIES

ST. REGIS—(Red) Everbearing.
CUMBERLAND—(Black).
Price, 15c each; $1.00 per dozen. If by mail add 10c each.

FRUIT TREES—(2 Years Old)

APPLES—75c each.
Yellow Transparent—July.
Gravenstein—September to October.
Summer Rambo — September to October.
Stayman's Winesap—Winter.
Red Delicious—Fall.
Grimes Golden—Fall.
Jonathan—Fall.
York Imperial—Winter.

CRABAPPLES (Hyslop)—90c each.

CHERRY—Leading varieties, $1.00 each.

PEARS—$1.00 each.
Bartlett—Summer.
Kieffer—Winter.
Seckel—Autumn.

PEACHES—60c each.
Elberta — Yellow freestone.
Georgia Belle—White Freestone.
J. H. Hale—Yellow Freestone.

PLUMS AND SHROPSHIRE DAMSON—70c each.

QUINCE—85c each.

GRAPES—(2 Years Old)

CONCORD (Blue) **NIAGARA** (White) **CACO** (Wine Red)
Price, 30c each. If by mail add 10c.

GATOR-HIDE MULCH PAPER

Gator-Hide Mulch Paper is one of the toughest, strongest, most durable papers made. It is impregnated by a special process with a particular grade of asphaltum which has no harmful effect on soil or plant life.

Unrolled over the proposed plant beds, and anchored by soil or other available material along the edges, Gator-Hide Mulch Paper imprisons all the moisture in the soil. Its black surface catches and retains the sun's heat. This raises the soil's temperature, prevents cooling at night, and promotes continuous bacterial activity, liberating night and day nitrous food matter for the plant, producing bigger, better, and earlier crops.

Planting is done through holes made in the paper, or in the space between two strips of paper rolled out close together. Thus while ample space is provided for the plant, no space is left for weeds, and the nourishment they ordinarily steal from the soil is conserved for the crops you plant.

Type A—18-in. width—300 linear yards to the roll	**$2.50**
36-in. width—300 linear yards to the roll	**5.00**
Type B—18-in. width—150 linear yards to the roll	**2.50**
36-in. width—150 linear yards to the roll	**5.00**
Garden Package	**.50**

QUALITY SEEDS FOR THE CRITICAL GROWER

ARTICHOKE

GREEN GLOBE—Sow seed in March or April and protect from frost. Set in open in rows, four feet apart and two feet in rows. Has deep green foliage with globe-shaped edible buds. **Packet 10c; Ounce 50c; 2 Ounces 90c; ¼ Pound $1.50.**

ASPARAGUS

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row.

PEDIGREE MARY WASHINGTON ASPARAGUS—Rust Resistant. This variety is the result of careful breeding by the U. S. Department of Agriculture, with the object of eliminating rust. A dark green color The best of all Asparagus. **Packet 10c; Ounce 20c; ¼ Pound 50c; Pound $1.25.**

ASPARAGUS ROOTS—A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 8,000 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants 15 inches apart. In field culture rows are placed four feet apart. **Per 100, $1.25; Per 1,000, $10.00. (Postage Extra.)**

BEANS

Dwarf or Bush-Wax Podded

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about 6 to 8 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

IMPROVED RUSTPROOF GOLDEN WAX

This is the handsomest and hardiest of all the Wax Beans. The Pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rustproof, and sure to become a favorite Wax Bean; in fact it has already gained great popularity with growers.

SURE CROP STRINGLESS WAX

Recently introduced by the largest bean grower and originator of new varieties in this country. Entirely stringless, black-seeded, thick, flat yellow pods. The most desirable sort for canning.

DWARF PROLIFIC BLACK WAX

Yellow pod, a very superior snap sort, ripening among the first earlies and having the best characteristics. Very tender.

CURRIE'S RUSTPROOF BLACK WAX

For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and ever meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequaled.

NEW PENCIL POD WAX BEAN

Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties.

SURE CROP WAX

WAX POD BUSH BEANS (About) Beans by Weight	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
IMPROVED RUSTPROOF GOLDEN WAX	$0.25	$0.40	$2.25
SURECROP STRINGLESS WAX	.25	.40	2.25
DWARF PROLIFIC BLACK WAX	.25	.40	2.25
CURRIE'S RUSTPROOF BLACK WAX	.25	.40	2.25
NEW PENCIL POD WAX	.25	.40	2.25

Add for postage, 8c per lb., 10c for 2 lbs.

Ask for prices per Bushel. **Ask for prices in Quantity.**

ASK FOR PRICES ON BEANS BY THE BUSHEL

BURPEE'S STRINGLESS GREEN POD BEANS

BEANS—Green-Podded Bush

ASGROW STRINGLESS BLACK VALENTINE BEANS.—Practically as early as the old time Black Valentine, without strings. Stringless. Beautiful, round early pods. Fine for early market.

G. & T. CO.'S EXTRA EARLY RED VALENTINE.—Ten days earlier than the ordinary Red Valentine Bean. It is without doubt the very best earliest green snap short Bean.

EXTRA EARLY BOUNTIFUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender and of delicious flavor.

FULL MEASURE (New).—Large cropper; stringless, green-podded, round Bean, not as early as Burpee's Stringless, but a heavy yielder. Best of quality.

BURPEE'S STRINGLESS GREEN POD.—One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings.

GIANT STRINGLESS GREEN POD.—Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages, and of mild flavor.

ASGROW NEW STRINGLESS GREEN POD BEANS.—Beautiful, long dark green pods, nearly round and stringless. Is very productive, hardy and a sure cropper.

DWARF HORTICULTURAL (Cherry).—Very green podded sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state.

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use.

WHITE NAVY, or SMALL PEA BEAN.—A well-known variety for field culture; very prolific.

Pole or Running

LAZY WIFE.—Large, pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to pole; enormously productive; splendid either as a snap or shell bean.

KENTUCKY WONDER, or OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length; nearly round when young, and very crisp.

SPECKLED HORTICULTURAL, or WREN'S EGG.—An old favorite for both snap-shorts and dry beans.

BUSH LIMA BEANS

Plant in rows three feet apart, dropping the beans 8 to 12 inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills three feet apart one way and two and one-half feet the other, and plant four beans in a hill. Hoe often but only when the leaves are dry.

FORDHOOK BUSH LIMA.—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decidcided acquisition to the dwarf Lima, possibly the best of the class.

FORDHOOK BUSH LIMA

BURPEE'S IMPROVED BUSH LIMA.—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome, and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white.

BURPEE'S BUSH LIMA.—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yielder, each bush bearing 50 to 200 handsome, large pods, well filled.

DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

HENDERSON BUSH LIMA.—These are very valuable, because they do not need poles, and, being so dwarf, can be planted close together. They are very early and prolific, continuing to bear until frost.

BEANS—Green-Podded Bush (about) Beans by Weight	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
G. & T. CO.'S EXTRA EARLY RED VALENTINE	$0.25	$0.40	$2.25
ASGROW BLACK VALENTINE STRINGLESS BEANS	.25	.40	2.25
EXTRA EARLY BOUNTIFUL	.25	.40	2.25
ASGROW NEW STRINGLESS GREEN-POD	.25	.40	2.25
FULL MEASURE	.25	.40	2.00
BURPEE'S STRINGLESS GR.-POD	.20	.35	2.00
GIANT STRINGLESS GREEN-POD	.20	.35	2.00
DWARF HORTICULTURAL	.20	.35	2.00
WHITE MARROWFAT	.15	.30	1.75
WHITE NAVY	.15	.25	1.50

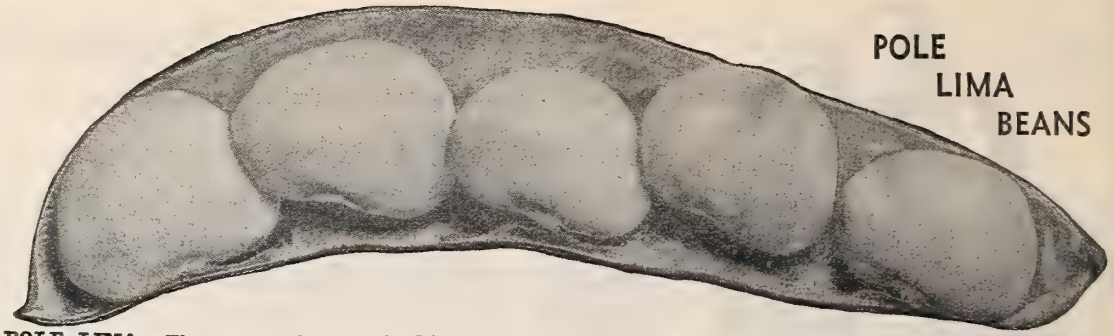
Ask for prices by the Bushel

BEANS—Pole or Running (about) Beans by Weight	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
LAZY WIFE	$0.20	$0.35	$2.00
KENTUCKY WONDER	.20	.35	2.00
SPECKLED HORTICULTURAL POLE or WREN'S EGG	.20	.30	2.00
BEANS—Bush Lima			
FORDHOOK BUSH LIMA	.30	.50	3.00
BURPEE'S IMP. BUSH LIMA	.25	.45	2.75
BURPEE'S BUSH LIMA	.25	.40	2.75
DREER'S BUSH LIMA	.25	.40	2.75
HENDERSON'S BUSH	.20	.40	2.25

Add for postage, 8c per lb., 10c for 2 lbs.

Ask for prices in Quantity

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties.



POLE LIMA BEANS

CARPENTERIA POLE LIMA.—The newest large pole Lima; enormously prolific; early green and delicious flavor.

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large Lima beans **earlier** than any other strain, but it is also **much more productive,** both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod.

KING OF THE GARDEN LIMA—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod.

EXTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality and is the favorite with most people.

EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow.

DREER'S IMPROVED OR CHALLENGE POLE BEAN.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing.

CAROLINA OR SIEVA.—A seedling variety of large White Lima, with small pods, usually about 2 inches long. A little earlier and hardier.

CROSBY'S IMPROVED EGYPTIAN

BEANS (about)	1 lb. Pt.	2 lbs. Qt.	14 lbs. Pk.
CARPENTERIA POLE LIMA	$0.20	$0.40	$2.25
HENDERSON'S EARLY LEVIATHAN, LIMA	.20	.40	2.25
KING OF THE GARDEN LIMA	.20	.40	2.25
EXTRA LARGE LIMA	.20	.40	2.25
EXTRA EARLY JERSEY LIMA	.20	.40	2.25
DREER'S IMP. or CHALLENGER POLE LIMA	.30	.50	3.00
CAROLINA or SIEVA POLE LIMA	.20	.40	2.25

BEETS

One Ounce of Seed will sow One Hundred Feet of Drill

Select a deep, rich sandy loam and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May; and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round early kinds.

ECLIPSE BEET.—This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table.

CROSBY'S IMPROVED EGYPTIAN BEET.—A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not so round as the Eclipse, or quite so flat as the ordinary Egyptian. It may be sown outside as late as July.

EARLY WONDER BEET.—This grand new Beet, recently introduced, is early, Red with short tops, fine for bunching. Roots are of good, uniform size, slightly oval, and of deep blood red, has slim tap roots, fine grain, tender and sweet. Never gets stringy or woody. Fine for both home use and market garden.

EXTRA EARLY FLAT EGYPTIAN.—This is a flat Beet, very early and deep red color. Owing to the small top it can be planted very close.

G. & T. CO.'S EARLY BLOOD TURNIP BEETS.—This is our **Special Stock** of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape, and early.

DETROIT DARK RED TURNIP BEET.—This is one of the finest formed and handsomest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety.

DETROIT DARK RED TURNIP BEET

SWISS CHARD

SWISS CHARD (Sea Kale or Spinach Beet).—Used exclusively for greens; cooked like asparagus, makes a very delicious dish.

BEETS	Pkt.	Oz.	¼ lb.	1 lb.
CROSBY'S IMPROVED EGYPTIAN	$0.10	$0.15	$0.25	$0.75
EARLY WONDER	.10	.15	.25	.75
DETROIT DARK RED	.10	.15	.25	.75
ECLIPSE	.10	.15	.25	.75
EXTRA EARLY EGYPTIAN FLAT	.10	.15	.25	.75
BLOOD TURNIP, G. & T. CO.'S	.10	.15	.25	.75
SWISS CHARD	.10	.15	.25	.75

Add for postage, 8c per lb., 10c per 2 lbs. **Ask for prices in Quantity.**

BEETS FOR STOCK—(Mangel Wurzel)

SOW 4 POUNDS TO THE ACRE

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased.

LONG RED MANGEL—The well-known, large, long variety, grows well out of ground. Color light red. Very productive. **Packet 10c, ¼ Pound 15c; Pound 40c.**

GOLDEN TANKARD MANGEL—The best type of Mangel—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. **Packet 10c, ¼ Pound 15c, Pound 40c.**

WHITE SUGAR BEET—A large-growing sort, and used for feeding stock. **Packet 10c, ¼ Pound 15c, Pound 40c.**

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGEL—One of the very finest Mangels ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre. **Packet 10c, ¼ Pound 15c, Pound 40c.**

BRUSSELS SPROUTS

1 Ounce of Seed to 100 Yards of Row.

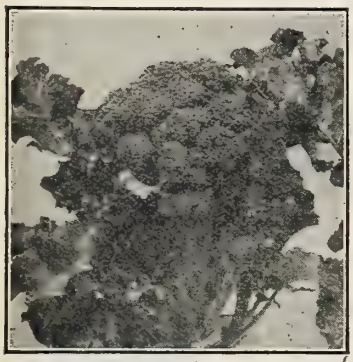
Brussels Sprouts are used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

PARIS HALF DWARF—Packet 10c, Ounce 25c, ¼ Pound 75c, Pound $2.50.

Brussels Sprouts

BORECOLE

BORECOLE—This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled. Seed should be sown in May and transplanted in July, in the open field, and treated same as Savoy Cabbage. **Packet 10c, Ounce 20c, ¼ Pound 50c, Pound $1.50.** **(See Page 27 for Kale or Borecole.)**



BROCCOLI (Italian Calabrese)

BROCCOLI

Sow seed in open ground and get plants in field in July or August. After the center head is cut, it will produce side shoots with a smaller head. One of the best on account of the succulent Asparagus flavor.

BROCCOLI ITALIAN CALABRESE GREEN SPROUTING.—This variety produces small heads on order of Cauliflower and is the latest and newest kind yet introduced. See Cut. **Packet 10c, Ounce 50c, ¼ Pound $1.25, Pound $4.00.**

BROCCOLI GREENS—Used largely in the Delaware, Maryland and Virginia Peninsula for northern shipment. Makes fine greens. Sow about August first for fall cutting. **Packet 10c, Ounce 15c, ¼ Pound 35c, Pound $1.25.**

BROCCOLI. LARGE EARLY WHITE—The heads resemble somewhat a coarse cauliflower, and the culture is the same as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower. **Packet 10c, Ounce 50c.**

G. & T. CO.'S LARGE GILT EDGE SNOWBALL CAULIFLOWER

Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect, snow-white head and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

EXTRA EARLY SNOWBALL—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

G. & T. CO.'S "DROUTH-RESISTING"—Produces larger, white, solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

G. & T. CO.'S SELECT EARLY DWARF ERFURT—Long the standard of highest excellence, and still holding its own with a great many people. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

CULTURE—The same as for Cabbage, except that extra manure and plenty of water will pay upon cauliflower.

CAULIFLOWER

CORN SALAD

Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach. **Packet 10c, Ounce 15c, ¼ Pound 35c, Pound $1.25.**

CRESS

AMERICAN UPLAND CRESS—Sow in August in drills 18 inches apart to get a spring crop. Used largely for salads. **Packet 10c, Ounce 15c, ¼ Pound 35c, Pound $1.25.**

WATER CRESS—Water cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets. **Packet 10c, Ounce 30c, ¼ Pound 75c, Pound $2.50.**

CURLED or PEPPER GRASS

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season. **Packet 10c, Ounce 15c, ¼ Pound 25c, Pound 75c.**

SELECT EARLY JERSEY WAKEFIELD

EARLY CABBAGE

One Ounce of Seed to 100 Feet of Row, for Plants

Cabbage will thrive on any good corn land, though the stronger the soil the better they will develop. Plow deep and manure very liberally, as cabbage is a strong feeder, and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to three feet apart in the rows, with the rows from two to two and a half feet apart. The distance varying with the size. For early use sow in a hotbed in February or March. In April the plants may be set out in the rows. For late crop, sow in May or June, and transplant as soon as the plants are five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

EXTRA EARLY JERSEY WAKEFIELD—Identical to the Jersey Wakefield, but smaller and about a week earlier.

SELECT EARLY JERSEY WAKEFIELD—American Grown—The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year.

CHARLESTON, OR LARGE WAKEFIELD—Has all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows.

COPENHAGEN MARKET—A new round head, solid cabbage, recently introduced from Denmark. It is without doubt the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed and the heads mature uniformly, which enables the crop to be harvested at one time, so that the ground can be cleared in two cuttings. As early as Jersey Wakefield.

GOLDEN ACRE—A new round extra early variety. Earlier than Jersey Wakefield.

COPENHAGEN MARKET CABBAGE

Second Early Varieties

ALL-HEAD EARLY—AMERICAN GROWN—is the largest of all early Cabbages, fully one-third larger than the Early Summer. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter Cabbage.

SUCCESSION CABBAGE—A fine early variety, coming in a few days later than Early Summer, it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted.

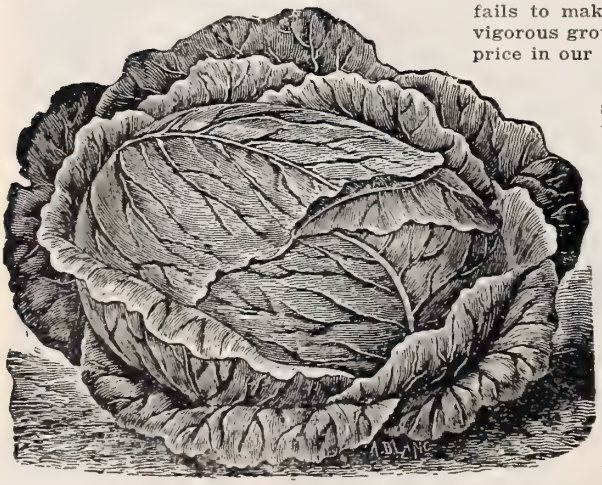
SUREHEAD—This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

EARLY DWARF FLAT DUTCH—An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield.

RED DUTCH CABBAGE—The head is round, large, solid and a deep red color, the best of the red cabbages.

DANISH BALL HEAD—This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York, and Boston markets.

PREMIUM LARGE FLAT DUTCH—Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.



PREMIUM LARGE FLAT DUTCH—LATE CABBAGE

CABBAGE	Pkt.	Oz.	¼ lb.	1 lb.
Select Early Jersey Wakefield	$0.10	$0.20	$0.60	$1.75
Extra Early Jersey Wakefield	.10	.20	.60	1.75
Charleston Wakefield	.10	.20	.60	1.75
Copenhagen Market	.10	.20	.65	2.00
Golden Acre	.10	.30	.75	2.75
All Head Early	.10	.20	.65	1.75

CABBAGE	Pkt.	Oz.	¼ lb.	1 lb.
Succession	$0.10	$0.20	$0.50	$1.75
Surehead	.10	.20	.50	1.75
Early Dwarf Flat Dutch	.10	.20	.50	1.75
Red Dutch	.10	.25	.75	2.50
Danish Ballhead	.10	.20	.60	2.00
Premium Flat Dutch	.10	.20	.50	1.75

CABBAGE—Continued

PERFECTION DRUMHEAD SAVOY—This is without any exception the finest stock of Savoy Cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. **Packet 10c, Ounce 20c, ¼ Pound 60c, 1 Pound $1.75.**

CHINESE OR CELERY CABBAGE

Sow seed early in August for best results. Produces heads in 70 to 80 days.

WONG BOK—Makes heads 8 to 10 in. high. **Price, Packet 10c, Ounce 20c, ¼ Pound 60c, 1 Pound $1.75.**

PE-TSAI—Resembles Cos Lettuce as much as Cabbage, although has a Cabbage flavor. **Price, Packet 10c, Ounce 20c, ¼ Pound 60c, 1 Pound $1.75.**

GEORGIA COLLARDS

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality. **Pkt. 10c, oz. 15c, ¼ lb. 20c, 1 lb. 60.**

WILT-RESISTANT VARIETIES OF CABBAGE

JERSEY QUEEN—Pointed, resembling Jersey Wakefield as to shape, season and quality. **Packet 10c, Ounce 30c, ¼ Pound $1.00, 1 Pound $3.50.**

MARION MARKET—Resembles Copenhagen Market as to shape and season. **Packet 10c, Ounce 30c, ¼ Pound $1.00, 1 Pound $3.50.**

WISCONSIN ALL SEASONS—Like the old time All Seasons. **Packet 10c, Ounce 35c, ¼ Pound $1.00, 1 Pound $3.50.**

All the above are produced on wilt-infected land and are immune from this disease. If your land is wilt-infected, plant the above to insure a crop.

CARROTS

1 Oz. of Seed to 100 Feet of Row

Carrots thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.

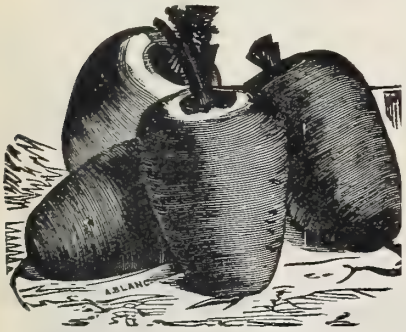
OXHEART OR GUERANDE

One of the heaviest yielders and the best for stiff and heavy soils where the long varieties would fail. The roots are often 3 to 3½ inches thick at the top; nearly oval in shape; the flesh is bright orange, fine grained and sweet. Of the finest table quality and equally good for stock. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

HALF LONG DANVERS

CHANTENAY

A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**



OXHEART OR GUERANDE

CHANTENAY

EARLY SCARLET HORN

The earliest variety in our list. Blunt-pointed, about 3 inches long, 1½ inches thick, very fine grained, sweet flavored; deep rich orange color. Fine for bunching. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

HALF LONG DANVERS

A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habits, a wonderful producer. It is a first-class Carrot for all soils. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

IMPROVED LONG ORANGE

CELERY

1 Oz. Will Produce 2,000 Plants

Plant seed in hotbed or very early in open ground. Transplant 4 inches apart when 3 inches high in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the center shoots.

WINTER QUEEN CELERY

GIANT PASCAL CELERY

A selection from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick, and crisp; the width and thickness of these are distinctive features of this variety.

EASY BLANCHING CELERY

A second-early variety, maturing right after Golden Self-Blanching and resembling it in size and general characteristics of growth, but the foliage is a bright rich green. The stalks are thick and solid and of extra fine quality. They are unusually meaty, pure white, heavy, and crisp. A valuable variety for fall, winter, and early spring use. Easily blanched. It has quickly become a great favorite with many market growers.

GOLDEN SELF-BLANCHING CELERY

WINTER QUEEN CELERY

It is without doubt the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor.

GOLDEN SELF BLANCHING CELERY

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery.

GOLDEN PLUME OR WONDERFUL CELERY

Recently introduced. Much better than White Plume in appearance, crispness, and fine nutty flavor, though somewhat earlier, larger and ranker growth. Blanches quickly, with full heart and rich, golden yellow color.

LARGE SMOOTH PRAGUE CELERIAC

WHITE PLUME CELERY

An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed.

LARGE SMOOTH PRAGUE CELERIAC

The largest, smoothest and best of the Celeriacs. New apple shape small foliage, large round and smooth.

CELERY SEED FOR FLAVORING

This seed is used for flavoring pickels, soups, etc.

GOLDEN PLUME CELERY

CELERY	Pkt.	Oz.	¼ lb.	1 lb.
GOLDEN PLUME OR WONDERFUL	$0.10	$0.30	$1.00	
GOLDEN SELF-BLANCHING	.10	.35	.90	$3.25
WHITE PLUME	.10	.20	.50	1.75
GIANT PASCAL	.10	.20	.50	1.75
WINTER QUEEN	.10	.20	.50	1.75
EASY BLANCHING	.10	.20	.60	2.00
FLAVORING		.10	.15	.40
CELERIAC				
LARGE SMOOTH	.10	.25	.50	1.75
NEW APPLE SHAPE	.10	.25	.50	1.75

CORN For Table Use

WHEN CORN IS WANTED BY MAIL, ADD 6 CENTS PER POUND TO PAY POSTAGE

CULTURE—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 18 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than two or three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.

First Early Varieties

56 POUNDS PER BUSHEL

Not a sugar corn but makes fine roasting ears for early planting.

FIRST EARLY NECK CORN—By far the earliest roasting-ear corn we have. Can be planted in April without injury, as it is very hardy.

EXTRA EARLY ADAMS—Extremely hardy and early; one of the best for early planting.

EARLY ADAMS—A favorite in the South.

NINETY-DAY CORN (Red Cob)—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop, and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop.

SWEET OR SUGAR CORN

Extra Early Varieties

Golden Bantam Corn

GOLDEN BANTAM CORN — The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground.

DE LUE'S GOLDEN GIANT CORN—The stalks grow 4½ to 6 feet tall and very near the ground; about one-third are purple in stalk, leaf and husk. They carry two or three good ears, 7 to 9 inches long; cob of small diameter, with 12 to 20 rows of long, deep kernels of deep orange color. The husk is very heavy, affording the end protection from worm and bird.

BARDENS WONDER BANTAM—A yellow sugar corn with all that the name implies, making ears up to 9 inches long; sweet and of good flavor. Matures only about a week later than Golden Bantam. **Pt. 30c, qt. 50c, ½ pk. $1.50, pk. $1.65.**

EARLY SHEFFIELD—Plant as early as Adams. Makes strong, vigorous growth with abundant foliage, growing about 5 feet and bearing usually two ears of handsome appearance.

WHIPPLE'S EARLY WHITE CORN—Of remarkable size, considering its earliness. Ears 8 inches long with 16 to 20 rows of rather narrow deep grains. Excellent quality, having rich, tender, well filled ears. Very desirable for market gardeners.

WHIPPLE'S EARLY YELLOW CORN—Practically same as above, only yellow grain and very sugary.

HOWLING MOB—Howling Mob is one of the best flavored and most tender of all second-early white sweet corns. Ears of Howling Mob measure from 7 to 9 inches in length and they are closely set with 12 or 14 rows of large, pearly-white grains.

EARLY MINNESOTA—One of the first early among sugar corn.

Main Crop Varieties

One bushel of Sugar Corn weighs 44 lbs.

ASK FOR PRICES IN QUANTITY

COUNTRY GENTLEMAN CORN—This is the sweetest and most delicious flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts.

STOWELL'S EVERGREEN—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best.

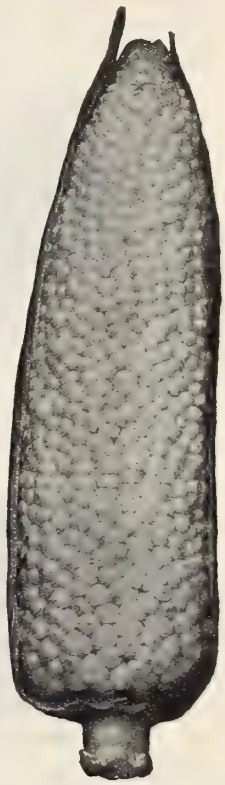
LATE MAMMOTH—The largest variety grown; very fine for market purposes.

ZIGZAG EVERGREEN—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn.

TRUCKER'S EARLY SUGAR CORN—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen; very productive.

EARLY MAMMOTH — A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end.

WHITE EVERGREEN—Has ears as large as Stowell's; is five days earlier; grains pure white. A valuable acquisition for the gardener and canner.

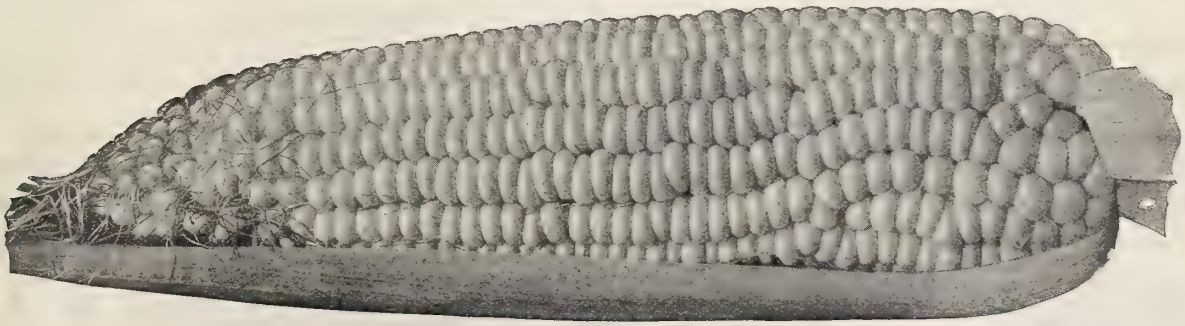


Country Gentleman Sugar Corn

GARDEN CORN	(About) ⅞ lb. (1 pt.)	1¾ lbs. (1 qt.)	14 lbs. (1 pk.)
FIRST EARLY NECK	$0.15	$0.30	$1.75
EXTRA EARLY ADAMS	.15	.30	1.75
EARLY ADAMS	.15	.30	1.75
NINETY DAY RED COB	.15	.25	1.25

SWEET CORN	(About) ¾ lb. (1 pt.)	1⅜ lbs. (1 qt.)	11 lbs. (1 pk.)
DELUE'S GOLDEN GIANT CORN	$0.20	$0.45	$2.50
GOLDEN BANTAM CORN	.25	.45	3.00
WHIPPLE'S EARLY WHITE	.25	.45	3.00
WHIPPLE'S EARLY YELLOW	.25	.45	3.00
HOWLING MOB	.25	.45	2.50
EARLY MINNESOTA	.25	.45	2.50
COUNTRY GENTLEMAN	.25	.45	3.00
STOWELL'S EVERGREEN	.25	.45	3.00
TRUCKER'S EARLY (Crop failed)			
LATE MAMMOTH	.25	.45	3.00
EARLY MAMMOTH	.25	.45	3.00
WHITE EVERGREEN	.25	.45	3.00
EARLY SHEFFIELD	.25	.45	3.00
ZIGZAG EVERGREEN	.25	.45	3.00

Add for Postage, 8c per pound, 10c for 2 pounds.
Ask for Prices in Quantity and by the Bushel.

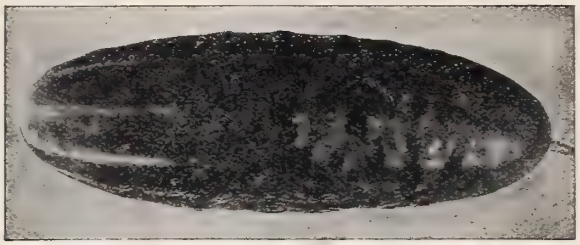


Stowell's Evergreen Sugar Corn

CUCUMBERS

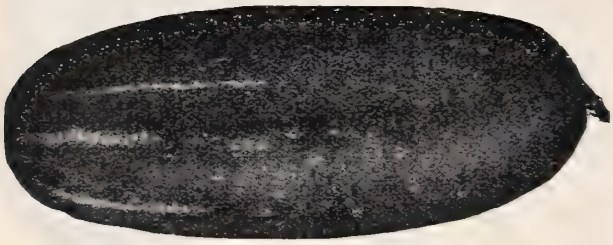
1 Oz. Will Plant 50 Hills. 2 Lbs. Will Plant an Acre.

For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort. For pickling sow from middle of June to last of July. Manure with wood ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot plaster, or air-slaked lime to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.



IMPROVED BALTIMORE WHITE SPINE

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida.



EARLY FORTUNE CUCUMBER

One of the earliest and best dark green White Spine Cucumbers. Extremely early, and beautiful shape. Good for market gardeners, truckers or private family; in fact, any one who likes a dark green, white spine cucumber it cannot help but please. Fine for Southern growers, as it stands shipping remarkably well.

IMPROVED LONG GREEN CUCUMBER

The skin is of a deep green, and the flesh is solid, crisp and of fine quality. We have the very best strains of this variety and recommend it as much the best cucumber of all, and the variety every one should want. The best known and most popular variety for general use. Is vigorous and productive, and forms fruit fit for use as early as the shorter varieties. The mature fruit is almost 12 inches long.

BURR, OR WEST INDIA GHERKIN

An extremely small fruited variety, grown exclusively for pickles. It has no value for slicing. Is very prickly, but tender and crisp if pickled when young. Seed germinates slowly.

Early Green Prolific

A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and fine quality when sliced for the table.

Ever-Bearing Cucumber

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Early Cluster

A short prickly variety, bearing in clusters near the root. A good bearer.

Jersey Pickling

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety.

ENDIVE

Is One of the Best Salads for Fall and Winter Use. One Ounce of Seed to 150 Feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and then thin plants to 6 or 8 inches in row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with soft fibrous material.

GREEN CURLED ENDIVE

GREEN CURLED (Green Ribbed)

The leaves of this variety are finely divided, giving a mossy appearance. The center tends to blanch to a delicate white. The plant is hardy and vigorous and especially good for fall and winter use.

BROAD LEAVED BATAVIAN (Escarrole)

This variety is used mostly for soups and stews. For blanching same must be tied up.

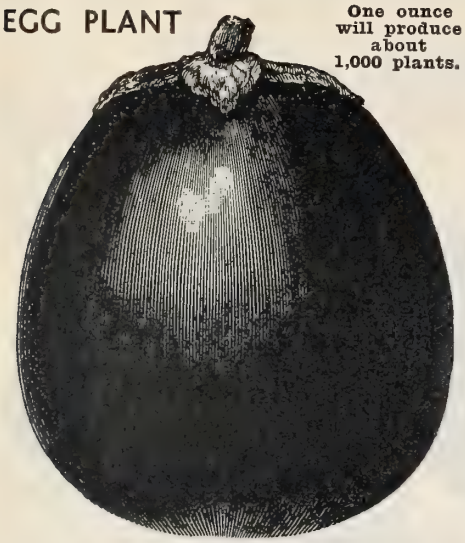
Pkt. 10 cents, Oz. 20 cents, ¼ lb. 40 cents, 1 lb. $1.25

CUCUMBERS	Pkt.	Oz.	¼ lb.	1 lb.
IMPROVED BALTIMORE WHITE SPINE	$0.10	$0.20	$0.60	$2.00
EARLY FORTUNE	.10	.20	.60	2.00
JERSEY PICKLING	.10	.20	.60	2.00
IMPROVED LONG GREEN	.10	.20	.75	2.75

CUCUMBERS	Pkt.	Oz.	¼ lb.	1 lb.
BURR OR WEST INDIA GHERKIN	$0.10	$0.20	$0.50	$1.50
EARLY GREEN PROLIFIC	.10	.20	.60	2.00
EVERBEARING	.10	.20	.60	2.00
EARLY CLUSTER	.10	.20	.60	2.00
ENDIVE				
GREEN CURLED	.10	.15	.40	1.25

EGG PLANT

One ounce will produce about 1,000 plants.



BALTIMORE EGG PLANT

CULTURE—Sow the seed in hot - beds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants will become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in a thoroughly-worked and well-enriched soil.

BALTIMORE EGG PLANT—This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color.

BLACK BEAUTY EGG PLANT—The earliest of all large fruited Egg Plants and produces fruit quite as large as the New York Purple in 10 days less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color.

NEW YORK IMPROVED LARGE PURPLE EGG PLANT—This market garden variety has plants of strong growth, and is very productive, producing plants of large size and fruits of smooth, deep purple color.

KALE OR BORECOLE

One Ounce of Seed Will Sow a Drill About 200 Feet.

EXTRA CURLED NEW AMERICAN KALE

The Kales are more hardy than cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in August and protect during winter. It must be sown in April or May for later use.

GRIFFITH & TURNER CO.'S NEW KALE—Larger, more curled and longer-standing than any other Kale. **Packet 10c, ¼ lb. 25c, lb. 90c.**

EXTRA CURLED NEW AMERICAN KALE—This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety.

DWARF GERMAN OR SIBERIAN KALE—Needs no description as it is a standard variety.

DWARF CURLED NORFOLK OR SCOTCH KALE—Yellowish-green foliage. Grows close to the ground and spreading. Used largely in the south.

BLUE DOUBLE CURLED SCOTCH KALE—A superior sort with a fine Blue-greenish color, much better than Norfolk or Scotch Kale.

EGG PLANT	Pkt.	Oz.	¼ lb.	1 lb.
BLACK BEAUTY	$0.10	$0.30	$1.00	$3.50
NEW YORK IMPROVED	.10	.30	1.00	3.50
BALTIMORE	.10	.30	1.00	3.50
KALE	**Pkt.**	**¼ lb.**	**1 lb.**	
G. & T. CO.'S NEW KALE	$0.10	$0.25	$0.90	
EX. CURLED NEW AMERICAN KALE	.10	.15	.50	
DWARF GERMAN OR SIBERIAN KALE	.10	.15	.40	
DWARF CURLED NORFOLK OR SCOTCH KALE	.10	.20	.60	
BLUE DOUBLE CURLED SCOTCH KALE	.10	.20	.75	

CHICORY

WITLOOF OR FRENCH ENDIVE

Fine for salads. Sow in open ground in May in rows 18 inches apart. Thin to 6 inches in row. In fall take up and place upright about 2 inches apart, in trench and cover with rich dirt and top dress with manure, about 6 inches deep. In spring, the plants will come out in 5 or 6 weeks.

Pkt. 10c; Oz. 20c; ¼ lb. 45c; lb. $1.50

FENNEL (Finocchia)

Florence fennel is used largely by the Italian trade, in salads, soups, etc., for flavoring. It grows very branching, about two to three feet high and has a dense feathery foliage. Same should be hilled when 18 in. high to bleach a creamy-white. **Packet 10c, Ounce 20c, ¼ Pound 50c, Pound $1.50.**

LEEK

1 Oz. of Seed to 150 Feet of Row.

Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH — A large and strong plant; hardy. The best variety for general culture.

KOHLRABI

1 Oz. of Seed to 100 Feet of Row.

Improved White Vienna

Bulb light green, flesh white. Very rapid in growth and of early maturity. Fine in texture and symmetrical in form.

LETTUCE

Lettuce requires rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

BIG BOSTON

BIG BOSTON—The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

WHITE BOSTON LETTUCE—Sometimes called Unrivalled Fine light leaf early lettuce. A good header. No pink tips on end of leaves like the old Big Boston.

	Pkt.	Oz.	¼ lb.	1 lb.
CHICORY, WITLOOF	$0.10	$0.20	$0.45	$1.50
FENNEL	.10	.20	.50	1.50
LEEK	**Pkt.**	**Oz.**	**¼ lb.**	**1 lb**
EXTRA LARGE MAMMOTH	$0.10	$0.20	$0.60	$1.75
KOHL RABI	**Pkt.**	**Oz.**	**¼ lb.**	**1 lb.**
WHITE VIENNA IMPROVED	$0.10	$0.20	$0.50	$1.75
LETTUCE	**Pkt.**	**Oz.**	**¼ lb.**	**1 lb.**
BIG BOSTON	$0.10	$0.20	$0.40	$1.25
WHITE BOSTON	.10	.20	.50	1.75

ABOVE PRICES ARE POSTPAID

LETTUCE—Continued

LETTUCE—Lettuce requires rich and rather moist soil. The rows should be about 18 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. CO.'S WHITE SEED SUMMER LETTUCE—The Best Summer Lettuce Ever Introduced—This variety has exceeded our expectation This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. It has a beautiful green color; head solid; light leaves, nicely crinkled; very tender, and of most excellent flavor.

NEW YORK-WONDERFUL or LOS ANGELES—Erroneously called Iceberg. The most talked of Lettuce today. It is grown largely in California and the West, shipped to the Eastern markets under the name of Iceberg. It is a crisp heading variety, producing very compact heads, with green leaves, slightly curled on edges.

BLACK SEED SUMMER LETTUCE—This lettuce is becoming very popular among gardeners for summer use; of the Cabbage type, remaining a long time in prime condition, before going to seed. It is light green in color, fine quality, crisp, tender, and nearly every plant will make a head.

"ICEBERG" LETTUCE—The heads are large, crisp, solid and tender, with pink tinge on edge.

EARLY PRIZE HEAD (Seed White)—A large, clustering, non-heading lettuce, most excellent for the home and garden, and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet.

EARLY CURLED SIMPSON—Black seed. Very early; excellent for salads; forms a compact mass of leaves.

MAY KING—A very early, new variety, forming fine, hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head.

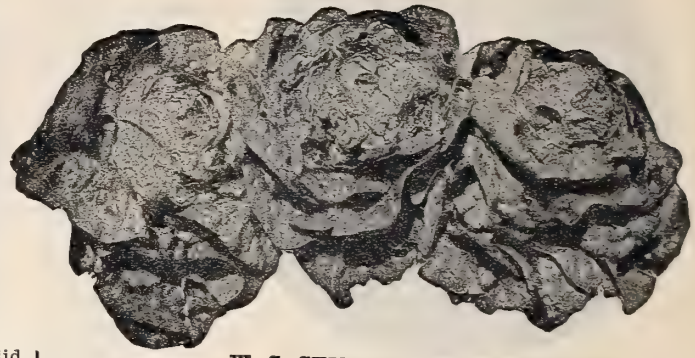
We have had no end of praise from our friends and customers who have tried this variety. It is essentially a spring sort, and does well all summer. Being of rapid growth and quick heading, it is especially recommended for home garden, and is universally esteemed.

GRAND RAPIDS—This variety is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimpled and frilled, thin, but of very upright growth; crisp, tender and of good quality.

DEFIANCE (Summer)—Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm that they have to be cut open to allow the flower heads to come through.

LARGE LOAF LETTUCE—This is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring.

NEW YORK OR WONDERFUL LETTUCE



W. S. SUMMER LETTUCE

COS LETTUCE

ROMAINE OR WHITE PARIS COS—The best of the Cos or celery varieties. Forms a large, light green plant with the head well folded and quite solid. Cos lettuce is also called Romaine, and is very popular with our foreign population, for it is highly prized in England and France.

HANSON—One of the most reliable sure-heading sorts. Makes a large globular head. Color, light green. Excellent quality. A fine variety for summer planting, as it stands hot weather better than most sorts.

LETTUCE	Pkt.	Oz.	¼ lb.	1 lb.
LARGE LOAF LETTUCE	$0.10	$0.20	$0.40	$1.25
HANSON	.10	.20	.40	1.25
GRAND RAPIDS	.10	.20	.40	1.25
DEFIANCE	.10	.20	.50	1.50
G. & T. CO.'S WHITE SEED SUMMER	.10	.20	.60	2.00
G. & T. CO.'S BLACK SEED SUMMER	.10	.20	.40	1.50
NEW YORK-WONDERFUL, OR LOS ANGELES	.10	.20	.50	1.75
MAY KING	.10	.20	.40	1.25
ICEBERG	.10	.20	.50	1.75
EARLY PRIZE HEAD	.10	.20	.40	1.25
EARLY CURLED SIMPSON	.10	.20	.40	1.25
ROMAINE, OR WHITE PARIS COS	.10	.20	.40	1.25

MUSKMELONS OR CANTALOUPES

CULTURE—One ounce of seed to 50 hills. Sow about the last of spring or the first of summer in hills of light, rich, sandy soil, 4 feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

KNIGHT CANTALOUPE

KNIGHT CANTALOUPE

This Cantaloupe has created a furore with our truckers, on account of its earliness, productiveness, uniformity in shape and appearance and its fine table qualities. It matures about a week earlier than the regular Rocky Ford, is larger in size and makes a most attractive and saleable melon. It has thick, green flesh, shading to orange at the center. The fruits are oblong in shape, well ribbed and well netted. It is a leader both for planting for home use and market and for shipping. Its early maturity, together with its fine qualities, are strong points in its favor. **Pkt. 10c., Oz. 20c., ¼ Lb. 40c., Lb. $1.25.**

NEW MARYLAND CANTALOUPE—Is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. **Pkt. 10c., Oz. 15c., ¼ Lb. 30c., Lb., $1.25.**

LONG JOHN—Grown extensively in Anne Arundel county. It is oblong, growing from 7 to 11 inches long. Deeply netted and ribbed. Green-fleshed and wonderful flavor. Thick meshed, with small seed cavity. **Pkt. 10c., Oz. 20c., ¼ Lb. 50c., Lb. $1.50.**

EMERALD GEM—Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again. **Pkt. 10c., Oz. 15c., ¼ Lb. 30c., Lb. 90c.**

EARLY NETTED GEM—Extensively grown, and many prefer it to all others for table use. Thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 75c.**

IMPROVED JENNY LIND—A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. **Pkt. 10c., Oz. 15c., ¼ lb. 25c., Lb. 75c.**

PAUL ROSE—The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 75c.**

EXTRA EARLY HACKENSACK—Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 75c.**

HONEY DEW MELON—This new melon averages about 6½ inches in diameter. Smooth skin, almost white, rind thin and tough, good keeper and fine flavor. **Pkt. 10c., Oz. 20c., ¼ Lb. 50c., Lb. $1.50.**

BOTTOMLY—A production of Anne Arundel County, Maryland. One of the newest and best Cantaloupes in existence. About a week later than the Knight. Fair size, excellent flavor, beautiful form and comprises all that is necessary for a good melon. **Pkt. 10c., Oz. 20c., ¼ Lb. 40c., Lb. $1.25.**

BALTIMORE NUTMEG CANTALOUPE

BALTIMORE NUTMEG CANTALOUPE—It is green-fleshed and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore. It is a leading sort all over the country. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 85c.**

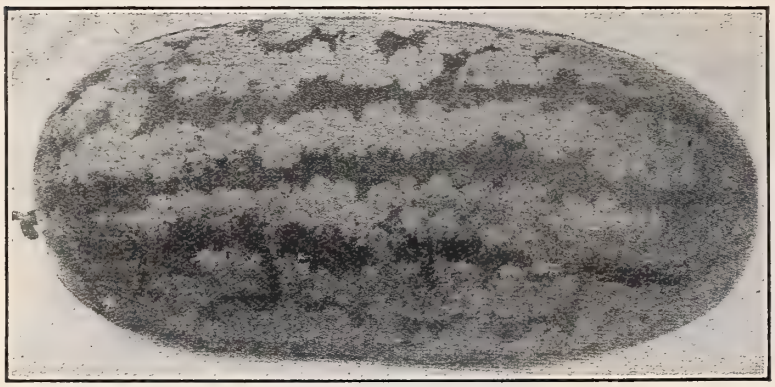
ANNE ARUNDEL CANTALOUPE—One of the largest melons grown around Baltimore. Flesh green, flavor delicious. Heavily netted and ribbed. Fine for market or home use. **Pkt. 10c., Oz. 15c., ¼ Lb. 30c., Lb. 90c.**

ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the **Rocky Ford** region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and highly flavored. **Pkt. 10c., Oz. 15c., ¼ Lb., 25c., Lb. 75c.**

WATERMELONS

CULTURE—One ounce of seed to 30 hills; 4 pounds to the acre. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.



LORD BALTIMORE

LORD BALTIMORE—It is very early, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grow.

FLORIDA FAVORITE—This we consider one of the richest and sweetest flavored melons grown, of medium size and prolific. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

RIBAULT WATERMELON—This new melon grows from 24 to 30 inches long, and 14 to 18 inches in diameter. The rind is dark green, slightly striped with lighter green. Rind is thick and makes a good shipper. Free from hard centers. Seed large white, with black rings on the tips. Has a small seed cavity and will mature in 95 days.

STONE MOUNTAIN—A very large nearly round or "blocky" melon of high quality. Rind fairly tough, dark green; flesh sweet, rich scarlet, with few seeds.

TOM WATSON—A recent introduction. A large oblong melon, dark green skin, with thin, tough rind, which gives it excellent shipping qualities. Melons are produced from 18 to 24 inches long and from 8 to 12 inches in diameter. Flesh deep red, crisp, melting and of finest flavor. Heart large, with little or no core. One of the best eating melons known.

EXCEL—In appearance it strongly resembles the Watson, has a very thin, tough rind, is uniformly large. It is an unusual melon in that, although a grand shipper, it is also one that we can highly recommend for private garden, the beautiful red meat being decidedly crisp, sweet and luscious, and solid to the center.

KLECKLEY'S SWEET.—Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality for the home market or family garden. It is decidedly one of the best.

THURMOND GRAY WATERMELON—Thurmond Gray is similar to Irish Gray, except with larger melons and brown seed instead of white. The rind is very tough and stands shipping as well as any melon grown. The flesh is free from strings, is fine grained, crisp and tender. Its eating qualities are excellent.

IRISH GRAY WATERMELON—This new South Georgia variety is one that has attained great popularity on its merit. It's a combination melon, equally good for shipping or home use.

CITRON—For Preserves. Fruit round and handsome. Used in making preserves only.

DARK ICING—An extra early and extra good melon for home use and nearby market. One of the most delicious of melons; rich red and sugary to the very rind.

GRAY MONARCH OR WHITE ICING—This distinct melon is without a doubt one of the largest of all. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet delicious flavor.

RATTLESNAKE WATERMELON—Large, oblong, striped and mottled; flesh bright red; a good shipper, a favorite variety in the South.

WINTER QUEEN.—These Melons are nearly round. Rind white, with pale green stripes. Seed, black and small. Flesh, deep red, stringless and sweet. Of excellent quality, ripening in 100 days. Will remain solid for a long time.

GENERAL PERSHING WATERMELON.—One of the best yet introduced. Tough rind, making it a good shipper. Red, sweet flesh. Big crop of enormous size.

NEW WATERMELON—THURMOND GRAY

WATERMELON	Pkt.	Oz.	¼ lb.	1 lb.
LORD BALTIMORE	$0.10	$0.15	$0.25	$0.75
FLORIDA FAVORITE	.10	.15	.25	.75
DARK ICING	.10	.15	.25	.75
TOM WATSON	.10	.15	.25	.75
THURMOND GRAY	.10	.15	.25	.75
RATTLESNAKE	.10	.15	.25	.75
CITRON	.10	.15	.25	.90
STONE MOUNTAIN	.10	.15	.25	.85

WATERMELON	Pkt.	Oz.	¼ lb.	1 lb.
GRAY MONARCH OR LONG WHITE ICING	$0.10	$0.15	$0.25	$0.75
WINTER QUEEN	.10	.15	.25	.75
KLECKLEY'S SWEET	.10	.15	.25	.75
EXCEL	.10	.15	.25	.75
IRISH GREY	.10	.15	.25	.75
RIBAULT WATERMELON	.10	.15	.25	.75
GENERAL PERSHING	.10	.15	.25	.75

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

YELLOW GLOBE DANVERS ONION

ONION SEED

CULTIVATION.—TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

YELLOW GLOBE DANVERS.—A very handsome, round, yellow onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions.

PRIZE TAKER.—This is a large, beautiful onion, rich straw color, and is of enormous size. The flavor is mild and delicate. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick.

WHITE SILVERSKIN or PORTUGAL.—A good variety for family use, skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets.

AUSTRALIAN BROWN.—A Valuable Long-Keeping Onion.—The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor.

WETHERSFIELD LARGE RED.—Well-known and favorite sort. A large yielder and good keeper.

YELLOW DUTCH, or STRASBURG.—The most popular and best variety for set purposes. Is similar to the Yellow Danvers. Flat in shape, color and size, but as a set onion it has the quality of ripening down earlier and more uniformly.

ONION SETS

CULTIVATION OF ONION SETS

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. Disturb the roots of the onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

White—1 qt. 30c; mailed 10 cents extra, Yellow—1 qt. 30c

Ask for prices on sets by the bushel of 32 lbs. It requires 10 to 15-bushel sets to plant one acre.

OKRA, or GUMBO

Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF OKRA

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 10c. Oz., 15c. ¼ Lb., 20c. Lb., 50c.

WHITE VELVET

It is very distinct and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 10c. Oz., 15c. ¼ Lb., 20c. Lb., 50c.

MUSTARD

FORDHOOK FANCY.—Very dark green plume-like leaves of tender quality and fine flavor.

FLORIDA BROADLEAF.—Quick growing and very productive. The leaves are very large, slightly crumpled, medium light green.

GIANT CURLED.—Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of great breadth, forming enormous bunches.

WHITE MUSTARD SEED.—For Pickles.

MUSHROOM SPAWN (American)

Cake 30c, by mail 35c, 10 lbs. $2.50 by Freight or Express. Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

CULTIVATION.—Select fresh horse manure, with straw bedding. Put in a flat pile and cover with 2 inches or 3 inches of good soil. In the course of 3 or 4 days, turn over and mix thoroughly. Moisten with water, pile up and cover again with soil and allow the pile to heat. Turn again in 5 or 6 days and moisten as before. Repeat the above about 4 times, every 5 or 6 days. Put this mixture on floor about 8 inches deep in beds the size desired and pack down with shovel. When the heat rises to 100 degrees, wait until it recedes to about 70, then place the spawn. Keep same moist, make your bed in cellar, shed, pit or some building that can be darkened.

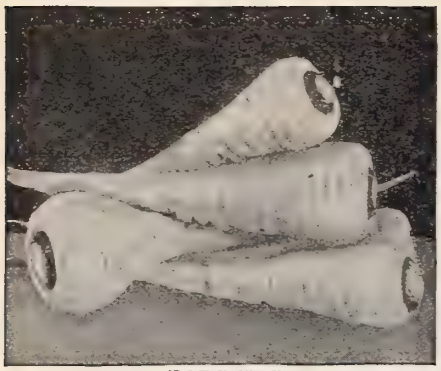
NASTURTIUM

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

	Pkt.	Oz.	¼ lb.	1 lb.
TALL MIXED	$0.10	$0.15	$0.30	$0.90
DWARF MIXED	.10	.15	.30	.90

ONION	Pkt.	Oz.	¼ lb.	1 lb.
WHITE SILVERSKIN or PORTUGAL	$0.10	$0.20	$0.60	$2.50
AUSTRALIAN BROWN	.10	.25	.60	2.50
WETHERSFIELD LARGE RED	.10	.25	.60	2.50
YELLOW DUTCH or STRASBURG	.10	.20	.60	2.50
YELLOW GLOBE DANVERS	.10	.20	.60	2.70
PRIZE-TAKER	.10	.20	.60	2.50
MUSTARD				
FORDHOOK FANCY or OSTRICH PLUME	.10	.15	.25	.60
FLORIDA BROAD LEAF	.10	.15	.25	.60
GIANT CURLED	.10	.15	.20	.50
WHITE MUSTARD, for Pickles	.10	.15	.20	.40

PARSNIP



PARSNIPS

The Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.

HOLLOW CROWN OR SUGAR.—The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardens. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Oz. 10 cents, ¼ lb. 20 cents, 1 lb. 65 cents.

RHUBARB OR PIE PLANT

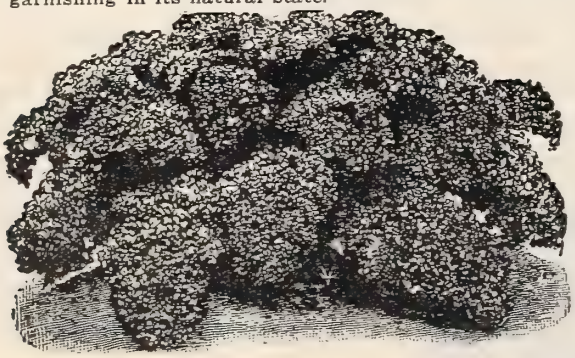
1 oz. seed to 125 ft. of drill

CULTURE.—Good plants are easily grown in any good garden soil. Sow seed thinly in shallow drills a foot apart, thin to 4 or 5 inches. Keep soil loose and free from weeds. The plants are liable to vary considerably. Pick out the strongest and best. In fall or spring following transplant to the permanent bed, 4 feet apart each way, in deep, warm and very rich soil.

Pkt. 10 cents, Oz. 20 cents, ¼ lb. 35 cents, 1 lb. $1.25

PARSLEY

Select rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



BALTIMORE EMERALD GREEN TRIPLE CURLED PARSLEY.—The newest and best variety yet introduced. Beautiful green color and finely curled and crimped.

DWARF EXTRA CURLED.—The most beautiful and valuable variety in use; handsome bright green color; finely crimped, beautifully curled.

MOSS CURLED.—A very select crimped variety.

HAMBURG ROOTED or GERMAN.—The root resembles a small parsnip and is the edible part of the sort; used for flavoring soups.

PARSLEY	Pkt.	Oz.	¼ lb.	1 lb.
BALTIMORE EMERALD GREEN TRIPLE CURLED	$0.10	$0.15	$0.25	$0.70
DWARF EXTRA CURLED	.10	.15	.25	.70
MOSS CURLED		.15	.25	.70
HAMBURG ROOTED GERMAN	.10	.15	.25	.70

PEPPER OR CAPSICUM

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

BELL or BULL NOSE PEPPER, HOT.—Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick flesh, of excellent quality for use in salads and pickles; color bright red when ripe.

BULL NOSE PEPPER, SWEET.—Large size like regular hot Bull Nose pepper, but mild.

RUBY KING.—An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild flavored.

SWEET MOUNTAIN.—Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being, when fully matured, of a rich red color. Flesh very thick, sweet and mildly flavored.

CHINESE GIANT.—Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily.

LONG RED CAYENNE.—A well known variety, having a slender, twisted and pointed pod about four inches long, and, when ripe, bright red in color. Extremely strong and pungent flesh.

RED CHERRY.—Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental.

RED CHILI.—Used in the manufacture of pepper sauce. The bright, rich red pods are about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe.

PIMENTO.—The mildest flavored of all peppers. Its productiveness makes it a desirable sort for the home garden or market.

CALIFORNIA WONDER.—Plants very vigorous. Is large, prolific and of good weight. Of finest quality and should be planted by all pepper growers.

PEPPER	Pkt.	Oz.	¼ lb.	1 lb.
LARGE BELL or BULL NOSE, SWEET	$0.10	$0.25	$0.75	$2.75
BULL NOSE, HOT	.10	.25	.75	2.50
RUBY KING	.10	.25	.75	2.75
SWEET MOUNTAIN	.10	.25	.75	2.75
CHINESE GIANT	.10	.40	1.25	5.00
LONG RED CAYENNE	.10	.30	.75	3.00
RED CHERRY	.10	.40		
RED CHILI	.10	.40		
PIMENTO	.10	.35	.75	
CALIFORNIA WONDER	.15	.50	1.25	4.50

HERBS

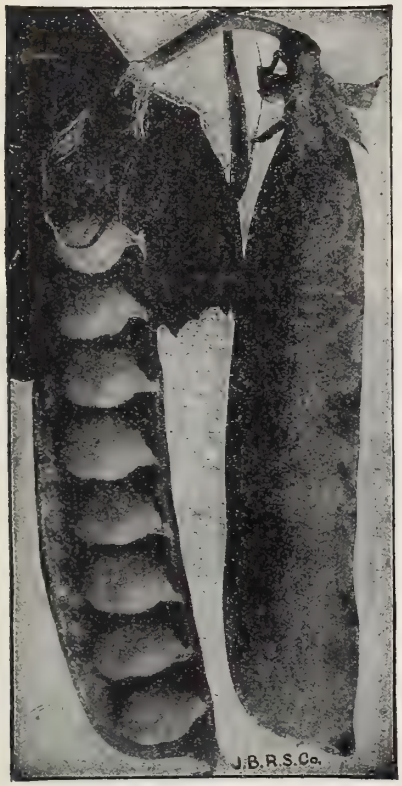
A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance. Care should be taken to harvest on a dry day just before they fully blossom.

	Pkt.	Oz.	¼ lb.	1 lb.
ANISE	$0.10	$0.15	$0.40	
BASIL	.10	.15		
BENE, use medicinally	.10	.15		
BORAGE, excellent for bees	.10	.15		
CARAWAY	.10	.15		
CHERVIL	.10	.25		
CHICORY, Witloof	.10	.20	.45	$1.50
CORIANDER	.10	.15		
DILL	$0.10	$0.15	$0.25	$0.75
FENNEL (Florentine)	.10	.25	.75	
LAVENDER (Vera)	.10	.25	.75	
MARJORAM	.10	.25	.75	
ROSEMARY, an aromatic herb	.10	.35		
SAGE (Broadleaf)	.10	.40	1.25	
THYME (broad-leaved English)	.10	.50	1.75	

PEAS—SELECTED STOCKS

Ask for prices in quantity. Add for postage 8c per lb., 10c per 2 lbs.

The Dwarf Varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.



THOMAS LAXTON PEAS

Extra Early Varieties

ALASKA — Our best rogued and hand-picked stock. Height 26 inches. The earliest Blue Pea. Very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

FIRST AND BEST—Height 2½ feet. Grown with special care. One of the earliest varieties.

PEDIGREE EXTRA EARLY — Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking.

G. & T. CO'S FIRST EARLY PEAS—This is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth, and ripening, and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop.

LARGE PODDED ALASKA—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety.

BOUNTIFUL—Ripening about three to four days later than extra early sorts. Much longer and thicker pods. Beautifully shaped, dark green color which is retained after earlier varieties have turned grey. Seed dented, and we recommend this pea to all market gardeners and truckers.

PROLIFIC EARLY MARKET—The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, market gardeners and family garden.

EARLY BIRD—As large as Thomas Laxton or Gradus. Earlier than either. Vines about two feet high with large well-filled pods. Can be planted earlier than Thomas Laxton or other wrinkled varieties.

Large Podded Extra Early Variety

MARYLAND PRIDE PEAS—Introduced by us recently for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color, and nearly as early as Alaska.

THOMAS LAXTON—Habit and growth same as Gradus, but pods are a deeper green color, square at the ends, having fine flavor.

GRADUS or PROSPERITY — Pale Green Wrinkled. The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest, and of vigorous habit.

IMPROVED LAXTONIAN—A fine, large mammoth-podded wrinkled pea. Vine is dwarf and is fine for home garden. Dark green.

Medium and Late Varieties

EVERBEARING—Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality.

CHAMPION OF ENGLAND—Height 4 feet. An old favorite, rich flavored and very productive.

TELEPHONE—Height 3 to 4 feet. Large wrinkled seeds; pods large and well filled.

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock)—Height 3½ feet. Grows a strong vine, bears in abundance large filled pods. The truckers' favorite.

MELTING SUGAR (Edible Pods)—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad, handsome light green pods, which are so brittle that they snap without any strings.

TALL GRAY SUGAR (Edible Pods)—Cooked in the pods same as Snap Beans.

DWARF GRAY SUGAR (Edible Pode)—Quite a favorite.

Dwarf Wrinkled Varieties

NOTT'S EXCELSIOR—Is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

AMERICAN WONDER—Very luscious in flavor. Try it. Height 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

PREMIUM GEM—Height 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea; very luscious in flavor.

McLEAN'S LITTLE GEM—Similar to Premium Gem, but more straggling in growth; pods not so well filled; height 18 inches; seed, green wrinkled.

LITTLE MARVEL.—Very early. Has dark green vines, 18 to 20 in. tall. Very vigorous grower and produces pods 3 in. long. Dark green, very tender and sweet. Seed wrinkled.

PEAS (about)	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
ALASKA	$0.20	$0.35	$1.75
FIRST AND BEST	.20	.35	1.75
PEDIGREE EXTRA EARLY	.20	.35	1.75
G. & T. CO.'S FIRST EARLY	.20	.35	1.75
LARGE PODDED ALASKA	.25	.40	2.00
BOUNTIFUL	.25	.40	2.00
PROLIFIC EARLY MARKET	.20	.40	2.00
EARLY BIRD	.25	.40	2.25
MARYLAND PRIDE	.25	.40	2.50
THOMAS LAXTON	.25	.40	2.50
GRADUS or PROSPERITY	.25	.40	2.50
IMP. LAXTONIAN	.25	.40	2.50

PEAS (about)	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
NOTT'S EXCELSIOR	$0.25	$0.40	$2.50
AMERICAN WONDER	.25	.40	2.50
PREMIUM GEM	.25	.40	2.50
McLEAN'S LITTLE GEM	.25	.40	2.50
EVERBEARING	.25	.40	2.25
LITTLE MARVEL	.25	.40	2.50
CHAMPION OF ENGLAND	.25	.40	2.25
TELEPHONE	.25	.40	2.25
IMP. SUGAR MARROWFAT	.25	.40	2.25
MELTING SUGAR	.25	.50	
TALL GRAY SUGAR	.25	.50	
DWARF GRAY SUGAR	.25	.50	

Ask for Prices by the Bushel

G. & T. CO.'S MARYLAND SWEET POTATO

PUMPKIN

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. CO.'S MARYLAND SWEET POTATO—This is the best table pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious.

LARGE CHEESE or KENTUCKY FIELD—A very large flattened pumpkin, averaging about 2 feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality.

TENNESSEE SWEET POTATO—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste.

CONNECTICUT FIELD—A fine, large, orange-colored variety used for field culture and stock feeding. The skin is smooth and ribbed and the flesh is brittle and sweet.

YELLOW CASHAW or CROOKNECK—Solid flesh, fine and sweet; keeps well.

RADISH

One Ounce Will Sow 100 Feet of Drill

For an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly, it will be hard, fibrous and disagreeably pungent.

EARLY SCARLET or PRUSSIAN GLOBE RADISH—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of a globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy.

FRENCH BREAKFAST—Of oval form; color scarlet, white tipped.

EARLY RED TURNIP—Turnip shaped, red skin, for forcing. Sometimes called Red Button Radish.

SCARLET OLIVE SHAPED RADISH—A showy half-long variety of pretty shape and bunches beautifully.

EARLY WHITE TIPPED SCARLET—An excellent variety for forcing, with very snort leaves; brignt scarlet in color, with a white tip.

Summer Varieties

MODEL PHILADELPHIA WHITE BOX—The best and earliest Round White Radish for early spring growing.

WHITE STRASBURG—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender.

GIANT STUTTGART—A splendid new variety, of excellent quality; withstands summer heat.

CHARTIER—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp.

DELICACY—Resembles White Strasburg, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months.

WHITE ICICLE—A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller.

WHITE ICICLE

Long Varieties

WHITE VIENNA or LADY FINGER—This is unquestionably the finest long white Radish. Of most handsome shape, color a beautiful snowy white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden.

LONG SCARLET (Finest Grown)—Very attractive and sells rapidly. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold.

Winter Varieties

WHITE CHINESE WINTER or CELESTIAL—This excellent variety is sold also as Chinese White Winter. The roots are long, cylindrical, with beautiful white skin and flesh, the whitest and usually the least pungent of the winter varieties. When fully matured the roots are six to nine inches long by about two and one-half to three and one-half inches in diameter. The flesh is compact and crisp.

CHINESE ROSE WINTER—Remarkably fine for winter use. The best of the winter sorts.

PUMPKIN	Pkt.	Oz.	¼ lb.	1 lb.
G. & T. CO.'S MARYLAND SWEET POTATO	$0.10	$0.15	$0.20	$0.70
LARGE CHEESE or KENTUCKY FIELD		.10	.20	.60
TENNESSEE SWEET POTATO	.10	.15	.20	.70
CONNECTICUT FIELD		.10	.20	.50
YELLOW CASHAW or CROOKNECK	.10	.15	.25	.70

RADISH	Pkt.	Oz.	¼ lb.	1 lb.
EARLY SCARLET or PRUSSIAN GLOBE	$0.10	$0.15	$0.25	$0.60
FRENCH BREAKFAST	.10	.15	.25	.70

RADISH	Pkt.	Oz.	¼ lb.	1 lb.
EARLY RED TURNIP	$0.10	$0.15	$0.25	$0.60
SCARLET OLIVE SHAPED	.10	.15	.25	.70
EARLY WHITE TIPPED SCARLET	.10	.15	.25	.70
WHITE STRASBURG	.10	.15	.30	.60
GIANT STUTTGART	.10	.15	.25	.75
CHARTIER	.10	.15	.25	.75
DELICACY	.10	.15	.25	.75
WHITE VIENNA or LADY FINGER	.10	.15	.25	.60
LONG SCARLET	.10	.15	.25	.60
WHITE ICICLE	.10	.15	.25	.70
WHITE CHINESE or CELESTIAL	.10	.15	.25	.75
CHINESE ROSE WINTER	.10	.15	.25	.60
MODEL WHITE BOX	.10	.15	.25	.70

BLOOMSDALE SAVOY SPINACH

SPINACH

This is quite an important crop with market gardeners, and one easily managed. For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring sow in September, and protect the plants through the winter by top dressing.

DARK GREEN BLOOMSDALE SAVOY SPINACH.—Reselected; as its name implies, it has all the merits of the Reselected Bloomsdale Savoy plants. Very much crumpled, stands long before going to seed and only two days later than the Reselected Bloomsdale.

RESELECTED BLOOMSDALE SAVOY SPINACH.—Grown from pedigree stock, carefully rogued each year for the true Bloomsdale Savoy Spinach plants.

IMPROVED LONG STANDING BLOOMSDALE SAVOY SPINACH.—Reselected; a most desirable sort. very curly and dark green. Stands ten days longer than the other savoy types before going to seed. While it is a slow seeder, it requires a longer time before it is fit to cut.

VIRGINIA BLIGHT RESISTING CURLY BLOOMSDALE.—Fine for carrying over winter.

OLD DOMINION SPINACH.—Curled; originated in the Old Dominion of Virginia, at the Virginia Experiment Station. It is wilt-resistant and much slower to run to seed than the Virginia Blight-resistant Bloomsdale. Fine for sowing in late Fall to carry over for Spring cutting.

VICTORIA LONG STANDING.—Slow to run to seed, dark green in color. Good for spring sowing. Crumpled.

LONG SEASONS.—Long standing; slow to run to seed; crimped, dark green. For spring sowing.

TRIUMPH.—Long standing; slow seeder, crimped dark green. Good for spring sowing.

JULIANA.—Reselected. Long standing. The finest crinkled sort of the flat types. Lots of foliage and very shy seeder. Dark green foliage and fine for summer sowing.

NEW ZEALAND SPINACH.—The hot weather spinach will resist heat and make a strong growth during the summer. The plants will continue to grow until late fall, supplying all during summer and fall an abundance of rich green leaves. It cannot stand frost like other spinach; for family gardens only.

SQUASH

Early White Bush Scallop

The squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

BENNING'S WHITE BUSH.—Tinted green. Same shape as White Bush, but preferred by growers, on account of its beautiful rich green-tinted color.

SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort.

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use.

ITALIAN MARROW COCOZELLE.—This foreign variety grows to a length of 6 to 8 inches in about 65 days. The skin is dark green becoming light green, as it matures. The flesh is pale green, firm and tender.

HUBBARD. — The most popular winter squash. Fruit is oblong and pointed, heavily warted, dark green in color, with orange-colored flesh. Is remarkable for its keeping qualities.

BOSTON MARROW.—A popular variety, with large oval fruit. Skin bright reddish-orange, with light cream netting. Flesh orange, fine grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red and delicious flavored dish.

Boston Marrow

SALSIFY

SALSIFY OR VEGETABLE OYSTER

Sow in early spring in light, rich soil, in drills 14 inches apart, and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—The new salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners.

SPINACH	Pkt.	Oz.	¼ lb.	1 lb.
VIRGINIA BLIGHT RESISTING		$0.10	$0.15	$0.30
RESELECTED BLOOMSDALE SAVOY		.10	.15	.30
IMPROVED LONG STANDING BLOOMSDALE SAVOY		.10	.15	.30
DARK GREEN BLOOMSDALE SAVOY		.10	.15	.30
VICTORIA LONG STANDING		.10	.15	.30
LONG SEASONS		.10	.15	.30
TRIUMPH		.10	.15	.30
JULIANA		.10	.15	.30
NEW ZEALAND	$0.10	.15	.25	.75
OLD DOMINON	.10	.15	.25	.75
ASK FOR PRICES IN QUANTITY				
SQUASH				
EARLY WHITE BUSH	$0.10	$0.15	$0.25	$0.75
SUMMER CROOK NECK		.15	.25	.75
WINTER CROOK NECK		.15	.25	.75
HUBBARD	.10	.15	.25	.90
BOSTON MARROW	.10	.15	.20	.50
BENNING'S WHITE BUSH SQUASH	.10	.15	.25	.75

SQUASH	Pkt.	Oz.	¼ lb.	1 lb.
ITALIAN MARROW COCOZELLE	.10	.15	.30	1.00
SALSIFY				
SANDWICH ISLAND MAMMOTH	.10	.20	.50	1.75

TOMATOES—Extra Early Varieties

For early fruit sow the seed first of March in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting and shelter from the sun for a few days until the plants are established.

Tomatoes will admit of training to stakes or trellis of various kinds. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with strong, soft twine, pruning out quite freely as the vines advance in growth.

BONNIE BEST TOMATO.—As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than Chalk's Early Jewel and, within a day or two, if not quite as early, as Spark's Earliana.

SUPER BONNIE BEST.—State certified seed grown under contract.

CHALK'S EARLY JEWEL.—Deep fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor.

SPARK'S EARLIANA.—The earliest bright red Tomato; very large, smooth, color bright red; solid and excellent for slicing. Grows in clusters; slightly acid.

JOHN BAER.—New, early prolific. Fine flavor and shape; quite as early as **Bonnie Best.**

EARLY I.X.L. TOMATO.—Earliest, largest, most prolific.

BREAK O'DAY TOMATO—For early market only. This is a a new variety of early light red Tomato and was originated by Dr. F. J. Pritchard of the U. S. Department of Agriculture by crossing the Marvana with the Marglobe. The vines are very open growing and somewhat resemble Earliana in appearance. It is quite resistant to disease and can stand severe adverse weather conditions. The fruits are medium to large in size. Plant in rich soil.

BONNIE BEST TOMATO

THE GRIFFITH TOMATO.—This new Tomato came to our notice a few years ago, and we have been watching its good qualities, before offering it to the public. A fine cropper, red, wilt-resistant, large size and medium early.

Pkt. 10 cents, Oz. 50 cents, ¼ lb. $1.50, lb. $5.00

PRITCHARD.—This new tomato was originated by the United States Department of Agriculture, and the stock we offer was grown from seed furnished by them. Pritchard will prove profitable in districts where wilt is prevalent, and truck growers will find the smooth solid fruits particularly suitable for packing and shipping. Is wilt resistant, and it is of intermediate height of vine. It is a midseason or main crop variety, producing a heavy crop of deep scarlet globe-shaped fruits of good size and unusual solidity. The vines are of rugged growth and medium height with abundant foliage to protect the fruits from hot sun.

MARGLOBE TOMATO. — EARLY WILT - RESISTING VARIETY which originated from a cross between Marvel and Globe. This cross was made by an expert plant breeder of the United States Department of Agriculture. This excellent fruit has carried the equally desirable character of Wilt-Resistance to the extent that Marglobe will continue to bear fruit and retain its green foliage when planted on wilt-infested soil.

SUPER MARGLOBE.—CERTIFIELD SEED grown under contract especially for us.

MARGLOBE TOMATO

	Pkt.	Oz.	¼ lb.	1 lb.
SUPER BONNIE BEST CERTIFIED SEED	$0.10	$0.50	$1.50	$4.50
BONNIE BEST	.10	.30	.75	2.75
CHALK'S EARLY JEWEL	.10	.30	.75	2.75
JOHN BAER	.10	.30	.75	2.75
SPARK'S EARLIANA	.10	.30	.75	2.75
EARLY I. X. L.	.10	.30	.75	2.75
SUPER MARGLOBE CERTIFIED SEED	.10	.50	1.50	4.50
MARGLOBE	.10	.25	.75	2.75
BREAK-O-DAY	.10	.30	.75	2.75
PRITCHARD OR SCARLET TOPPER	.10	.40	1.00	4.00
THE GRIFFITH TOMATO	.10	.50	1.50	5.00

TOMATOES—Continued

MAIN CROP VARIETIES

THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth; with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; not subject to rot.

MY MARYLAND TOMATO.—My Maryland is an exceptionally heavy yielder of wonderfully uniform, well shaped, solid, smooth, bright red tomato. It is a second early or main crop variety, and the fruit is entirely free from roughness and cracks.

GREATER BALTIMORE TOMATO.—Introduced in Baltimore some years ago. It makes a fine main crop tomato, of large size, bright scarlet color, ripening uniformly up to the stem.

One of the best main crop varieties for canner and market.

GRIFFITH & TURNER CO.'S WORLD'S FAIR.—The great canner. The six great points of this great canner — solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

WISDOM.—Recently introduced. Medium early; good cropper, fine size and flavor. Good for early or late planting.

OXHEART TOMATO.—New. The largest new variety of Tomato yet introduced. Some fruits weigh as much as one and a half pounds. It is ox-heart shaped, extremely solid and a purplish-scarlet color, with a mild sub-acid flavor. Fine for the home garden.

KELLY RED TOMATO.—This splendid Red Tomato originated in Anne Arundel County, Md., and through its superior qualities it has become the Tomato most largely used in that section. It is large, meaty, an abundant yielder, and withstands unfavorable conditions remarkably well.

RED ROCK.—One of the finest for canning, being extraordinarily solid, smooth and red. No other variety has any better qualities than the Red Rock. Of fine flavor, very meaty and wonderfully free from acid. A heavy producer and good shipper. We think it is the coming tomato for main crop and canner's use.

PONDEROSA TOMATO.—Remarkable for size and heavy fruits, sometimes weighing over a pound. Deep red flesh, thick, solid and fine quality. Fine for the home garden and to grow on Trellis. Sometimes called "Beefsteak." There is nothing better for slicing.

GREATER BALTIMORE

SMALL FRUITED VARIETIES

PEAR-SHAPED RED.—
PEAR-SHAPED YELLOW.—Used for preserves and pickles.

YELLOW PLUM.—Color bright yellow; excellent for preserving.

TOMATO	Pkt.	Oz.	¼ lb.	1 lb.
G. & T. CO'S WORLD'S FAIR	$0.10	$0.30	$0.75	$2.50
PONDEROSA	.10	.40	1.25	
PEAR-SHAPED RED	.10	.35	1.25	
PEAR-SHAPED YELLOW	.10	.35	1.25	
YELLOW PLUM	.10	.35	1.25	
NEW STONE	.10	.30	.75	2.00

TOMATO	Pkt.	Oz.	¼ lb.	1 lb.
GREATER BALTIMORE	.10	.30	.75	2.00
RED ROCK	.10	.30	.75	2.00
WISDOM	.10	.30	1.00	2.75
KELLY RED	.10	.30	.75	2.00
MY MARYLAND	.10	.30	.75	2.00
OXHEART	.10	.50	2.00	

IMPROVED PURPLE OR RED TOP GLOBE TURNIP

TURNIP

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and if possible, new soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.

Improved Purple or Red Top Globe Turnip

This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety, and is one of the best for market use. It is also known as Red Top White Globe.

Red or Purple Top Flat Strap-Leaved Turnip

A very early, strap-leaved variety, very extensively used for the table. The leaves are few, entirely upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter, but can be grown much larger for stock feeding. This sort is also known as Early Red Top, Strap-Leaved.

YELLOW ABERDEEN, or SCOTCH YELLOW—This is a highly approved **Cattle Turnip,** attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

LARGE AMBER or YELLOW GLOBE—Grows to a large size; flesh yellow, firm and fine grained. Excellent for either table use or feeding stock.

SEVEN TOP—For greens and salads. Used largely in the Southern States.

EXTRA EARLY PURPLE TOP MILAN—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

WHITE FLAT—Differs from Red Top only in color.

EARLY WHITE EGG—A new variety of rapid growth; egg-shaped and white, as its name indicates.

COW HORN (Large Croppers)—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

SOUTHERN PRIZE—True strain of the favorite Turnip for greens in Virginia and Carolinas. Valued also for its bulk.

RUTABAGAS OR SWEDES—The Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP—Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation.

TURNIPS	Oz.	¼ Lb.	1 Lb.
IMPROVED PURPLE OR RED TOP GLOBE	$0.10	$0.15	$0.50
PURPLE TOP STRAP-LEAF	.10	.15	.40
YELLOW ABERDEEN	.10	.15	.50
LARGE AMBER OR YELLOW GLOBE	.10	.15	.50
SEVEN TOP	.10	.15	.50
WHITE FLAT	.10	.15	.50
EARLY WHITE EGG	.10	.15	.50
COW HORN	.10	.15	.50
SOUTHERN PRIZE	.10	.15	.50
RUTABAGAS			
G. & T. CO.'S IMPROVED PURPLE TOP	.10	.15	.50

SEED POTATOES—MAINE OR NORTHERN GROWN

ALL POTATOES SOLD BY WEIGHT ONLY; BUSHEL, 60 POUNDS.

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well-rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.

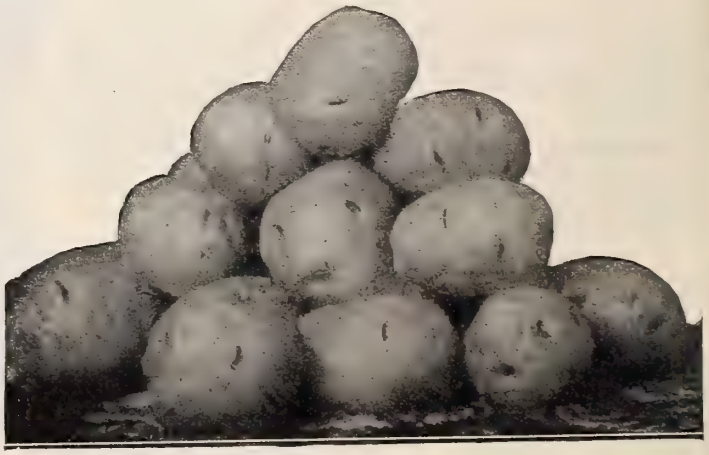
G. & T. CO'S EXTRA EARLY PRIZE—This potato is in all respects a very popular early sort. It proved to be early and productive; also found its eating qualities first class. We consider it the best early potato on the market today.

IRISH COBBLER—Very productive, matures early; shape chunky, eyes strong and deep set, skin netted, flesh white, quality very superior. After years' experience we find that it is a very superior variety. Don't fail to get it.

RED BLISS TRIUMPH—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose.

SPAULDING ROSE.—The Spaulding Rose leads the list for Rose Potatoes and is today one of the best early market Potatoes. Our stock of this is grown on new land near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years.

GREEN MOUNTAIN—This is a most excellent late potato; it does remarkably well on poor soils, and is very free from disease; it resists drought wonderfully well and produces tubers of large size and attractive appearance; flesh white. It is a good keeper, and when put away in the fall will keep well until spring. Matures in 140 days.



Irish Cobbler Potatoes.

PROSPERITY—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

Price, per Peck, 40c. Postage extra. Write for price per Bushel and Barrel Lots.

CHOICE JERSEY SWEET POTATOES DURING SEASON

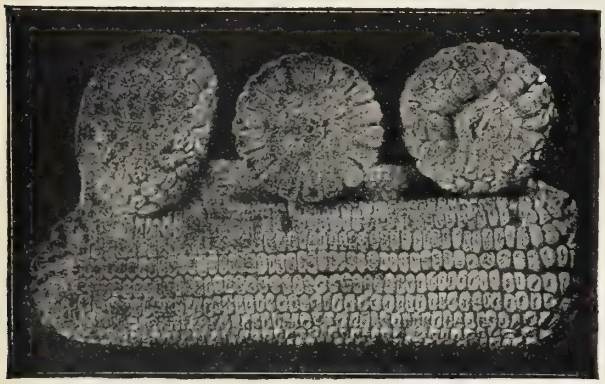
FIELD CORN

Maryland Yellow Dent Corn.

CHESTNUT GROVE YELLOW CORN—The ears are large, deep, medium-sized grain, and of beautiful color. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**

NEW MARYLAND YELLOW DENT—The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, **1¾ lb. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**

REID'S YELLOW DENT CORN—Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8½ feet high, and produces a great many stalks with two ears. A fine early corn. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**



Maryland White Dent Corn.

SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, recleaned and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED BUCKWHEAT

JAPANESE—The best sort. The plants are large and vigorous, maturing their seed early. One-half the seed is required per acre.

WHITE-SEED OATS

For spring sowing. Thirty-two pounds to the bushel. Extra heavy fancy White Oats. Ask for prices.

WINTER TURF OATS

Perfectly hardy in the Southern and middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine heavy grain weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.

IMPROVED EARLY LEAMING—An early selected variety of yellow corn; small grains, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**

90-DAY YELLOW—This is an excellent quick-growing variety. May be planted after peas are taken off, and makes a good crop. Largely used by truckers around Baltimore. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**

SMOKY YELLOW DENT—The earliest dent Corn today; a good yielder. It is the most beautifully colored up corn in cultivation. Sides of grain red, with white cap. Grows strong, quick and has splendid seven to eight foot fodder. Will mature in 75 to 80 days. **Price: 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**

G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**

BOONE COUNTY WHITE—We believe this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barren stalks. Matures in 110 to 115 days. **Prices: 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50. Postage, 8c per lb. extra.**

JOHNSON COUNTY WHITE CORN—A favorite white Corn in the Western Corn Belt. Ears same size as Boone Co. White. Good deep grain on small, white cobs. It will shell from six to seven bushels per barrel.

We recommend it as a fine general main crop sort. Will mature in about 120 days. Has abundant foliage, which makes it also valuable for ensilage purposes. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 90c. 56 lbs. (about 1 bu.) $3.50.**

90-DAY CORN (White with red cob)—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn. Is suitable for either early or late crop. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) $1.00. 56 lbs. (about 1 bu.) $3.50.**

Postage, 8c per lb. extra.

EUREKA WHITE ENSILAGE CORN—Specially adapted for ensilage. **56 lbs. (about 1 bushel) $3.50.**

POPCORN (White Varieties)—25c per lb.

POPCORN POPPERS—25c each.

BROOM CORN—To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. **Price: 1 lb., 30c.**

BARLEY

BEARDLESS FALL BARLEY—A fall variety without beards. Ask for prices.

BEARDED FALL BARLEY—A heavy yielder, much better than spring sown. Sow in September for best results. **Ask for prices.**

WRITE FOR PRICES OF FIELD SEEDS IN QUANTITY

FORAGE AND SILO SEEDS

COW PEAS

The great soil enricher. Makes poor land rich and good land better. They also make the best quality of Hay when cured.

The sowing of **COW PEAS** is one of the cheapest as well as the best means of improving the soil. They can be turned down for green manuring, or, if allowed to ripen, cut and cure for hay; turn down roots, which will give as good results as when whole plant is used.

BLACK—This is the standard variety, makes a fine growth, both of vine and leaves, and a good yield of peas.

WHIPPORWILL—A favorite, early, upright-growing variety, more largely used and sold than any other kind.

NEW ERA—An early maturing variety which has proved very popular and satisfactory.

MIXED COW PEAS—Are fine for forage or improving the soil generally. Sold at a lower price than the named varieties.

SOJA BEANS

Unsurpassed in nutritive value for feeding; also makes a splendid soil improver.

MAMMOTH YELLOW SOJA—The largest-growing and most popular of soja beans for forage purposes. A little later in maturity than other kinds.

WILSON BLACK SOJA BEANS—One of the best, in our opinion, for the Northern States, where a quick, early variety is desired.

VIRGINIA BROWN SOJA BEANS—Coming into use very extensively; about the same size as the Wilson.

Cow Peas

VETCHES OR TARES

SPRING VETCHES (vicia sativa).—Closely associated with peas in character. Highly valuable for soiling, for green manuring. Use 30 to 50 pounds to the acre. Sow in spring while ground is cool and moist. **Pound, 10c.**

WINTER VETCHES (vicia villiosa).—Also called Sand Vetch or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy. Use 30 to 50 pounds per acre. **Price on application.**

FLAXSEED.—Lb., 12c. 3 lbs., 35c. Postage extra.

SORGHUM, OR SUGAR CANE FOR FODDER

EARLY AMBER grows 10 to 12 inches tall, which is relished by all kinds of stock.

KAFFIR CORN.—The heads contain small white seeds, which are greedily eaten by horses and cattle.

GERMAN MILLET.—A fine, quick-growing summer Hay crop. Should be sown thick, not less than one bushel per acre. Cut while in flower. It should be sown any time after the middle of May up to first of August.

CANADA FIELD PEAS.—Sown in February, March or April, with a small quantity of oats, they make forage. Sow 1 to 1½ bushels per acre broadcast with half bushel of oats.

RUSSIAN SUNFLOWER.—Is highly recommended for poultry—the best egg-producing food known. **Lb., 10c.**

DWARF ESSEX RAPE.—It can be sown all through the season; being perfectly hardy. 5 pounds to the acre, or 2 to 3 pounds in drills. It is unequalled as a pasture for sheep, and as a fattening food for all kinds of livestock. **Lb., 10c., by express, 10 lbs. and over, 8c. lb., not prepaid; $7.00 per 100 lbs.**

HIGH-GRADE GRASS and CLOVER SEEDS

TIMOTHY (Phleum Pratense)—This makes one of the most popular, nutritious and salable of hay grasses. **Bushel, 45 Pounds.**

RED TOP, OR HERD'S GRASS (Agrosis Vulgaris)—This grass makes excellent pasturage. Is adapted for seeding with Timothy for hay.

FANCY CLEANED RED TOP—Sow 12 to 15 Pounds per acre. **(Bushel, 32 Pounds.)**

TALL MEADOW OAT GRASS (Avena elatior)—Relished by cattle, early and late. Height, 2 to 4 feet, 50 pounds to the acre. **(10 Pounds to Bushel.)**

KENTUCKY BLUE GRASS (Poa Praetensis)—Best for pasture and lawns when combined with other grasses. **14 Pounds to Bushel.**

ORCHARD GRASS (Dactylis glomerata)—One of the best and most reliable grasses for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. Sow 3 bushels per acre if sown alone; with Red Top, one and one-half bushels of Orchard and seven pounds of Red Top are the quantities usually sown. **14 Pounds to Bushel.**

CREEPING BENT GRASS (Agrotis stolonifera)—Excellent for lawns; succeeds well in all conditions; makes a low, velvety growth.

MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis)—It makes a very good pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter.

SEE INSIDE FRONT COVER FOR LAWN GRASS AND FERTILIZER.

RED FESCUE—It is densely tufted perennial grass for dry, sandy and rocky soil. It roots deeply, and forms a dense short tuft, suitable for lawns and pleasure grounds. Sow about 30 pounds per acre. **14 Pounds to Bushel.**

ITALIAN RYE GRASS—Is an annual and should be sown every year at the rate of 50 pounds per acre. It can be sown during August, September or October. **14 Pounds to Bushel.**

ENGLISH RYE GRASS (Lolium Perenne)—This makes a quick growth very early in the spring, and is adapted for cool, moist locations. 60 pounds to the acre. **14 Pounds to Bushel.**

SUDAN GRASS—A tall growing annual grass, suitable for Hay. It grows when sown broadcast, 3 to 5 feet high, according to the richness of soil. If sown middle of May, will make 2 to 3 cuttings of fine Hay, relished by all kinds of stock. Sow 30 to 40 pounds per acre broadcast. **Ask for prices.**

GRASS MIXTURE FOR HAY AND PERMANENT PASTURES

Prepared especially to meet the demands for a mixture that will be desirable for cutting for Hay or to use for Pasture, and contains such grasses as are best adapted for these purposes. In ordering please state whether you want a mixture for upland or low ground.

MIXTURE FOR UPLAND—14 pounds to the bushel, 3 bushels to the acre. **Per bushel, $2.50; 10 bushels for $24.00.**

MIXTURE FOR LOWLAND—14 pounds to the bushel, 3 bushels to the acre. **Per Bushel, $2.50; 10 bushels for $24.00.**

CHEWING'S FESCUE is a hardy grass, producing very fine dark green leaves. It is permanent and will grow on all types of soil.

R. I. BENT (A. Canina)—A hardy perennial grass.

POA TRIVIALIS (Rough Stalk Meadow Grass)—Does fine on rich moist soils and shady places. Is a perennial.

CLOVER SEEDS

RECLEANED RED CLOVER—We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed.

ALSIKE OR SWEDISH CLOVER—Hardiest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage.

WHITE DUTCH CLOVER—Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures. **¼ Pound 20c, ½ Pound 30c, Pound 50c. 10 Pounds, by express, not prepaid, $4.50.**

LUCERNE OR ALFALFA CLOVER—One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Prepare the land thoroughly and sow, either fall or spring, 20 pounds to the acre.

CRIMSON CLOVER (The Great Nitrogen Gatherer)—For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October. 15 pounds to the acre.

HORTICULTURAL TOOLS AND SUPPLIES

GRASS HOOK

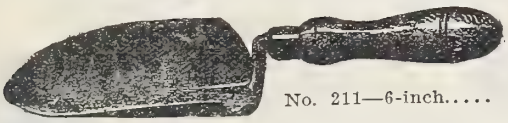
No. 2 Austrian or German Grass Hook	$0.60
Best English Grass—No. 2	.60
Best English Grass—No. 3	.75
American—plain, No. 5, Bent Handle	.35
Best English Hedge or Grass Hooks, Riveted Back—No. 4	1.00
No. 3, B. V. Bent Handle—polished	.50
Long Handle Grass Hook	1.00

GARDEN TROWELS

No. 212—American, 16-gauge tool steel, 6-inch blade. a handle that will not come out in dry weather. **Price, 30c.**

No. 213—American, 6-inch bright steel blade, plain handle, **15c.**

ENGLISH PATTERN STEEL GARDEN TROWEL

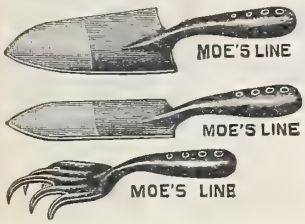


No. 211—6-inch..... 80c

TRANSPLANTING TROWEL

No. 217—5-inch blade .... **15c** No. 217—8-inch blade **30c**

Moe's All Steel Garden Trowels and Weeders



Heavy pressed steel black enamel finish with polished points. No loose wooden handles.

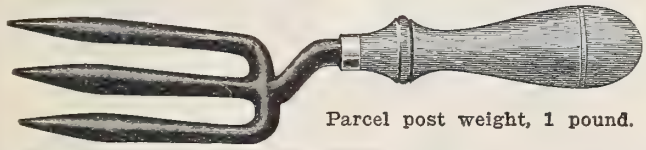
No. 80—Garden trowel, 6-in. blade. Each.....	10c
No. 81 — Transplanting trowel. Each.....	10c
No. 82—Garden Weeder. Each	10c

EUREKA HAND WEEDER

A Very Handy and Useful Weeder.

No. E—Grip handle.....**45c.**
No. EL—2-foot handle.....**55c.**
Parcel post weight. 1 pound.

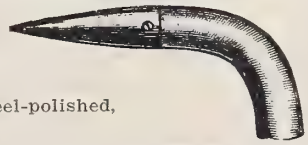
LARGE HAND WEEDER



Parcel post weight, 1 pound.

No. 400—4 Prong Hand Weeder..... 30c
No. G—Solid Steel Hand Weeder, 3 Prong..... 50c

DIBBERS



For transferring plants. By far the best thing for the purpose ever introduced.

No. 219, Right-angle shape, steel-polished, wood handle, **75c.**

GRASWIP

No. 165 Graswip is made of Forged Tool Steel, and has two cutting edges, you swing it like a golf stick and it cuts both ways on the forward and backward stroke.

Price, $1.00.

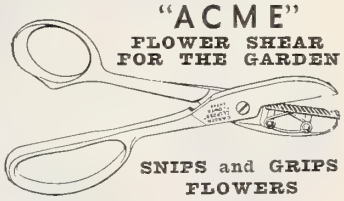
This improved flower and fruit shear cuts and holds fruit and flowers after cutting. Use one hand in cutting and the shear holds the fruit or the flower. It's a time-saver—particularly advantageous in cutting roses. An indispensable garden tool. **No. 1248, Flower Shear, price 65c.**

SCUFFLE HOE

4-inch	$ .70
6-inch	.80
8-inch	1.00

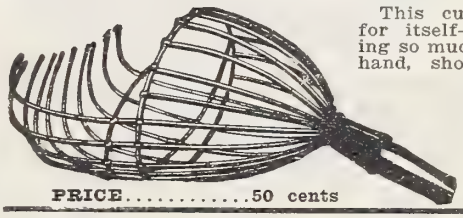
"ACME"

FLOWER SHEAR FOR THE GARDEN



SNIPS and GRIPS FLOWERS

FRUIT PICKER



This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a pole.

PRICE.....50 cents

ONE HAND PRUNING SHEARS

No. 06—Volute Spring Pruners	$0.50
No. 10—Ladies' Small Pruners	.60
No. 30—9-inch California Pattern Pruners	.75
No. 150P—California Pattern, full polish	1.00
No. 260—Double Flat Spring Pruners	1.10
No. 119—Snap Cut, outcuts all others	1.65

Parcel Post Weight, 1 Pound.

PRUNING KNIVES

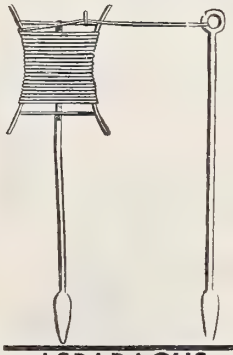
No. 1001—Cocoa Handle.....**$1.00**

Bone Handle Budding Knife, No. S1944W..... **1.00**

BARLOW BUDDING KNIVES

No. 1157¼.....**$0.50**

GARDEN REELS



Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron, and will last a life time.

No. 1 Garden Reel	$1.50
No. 2 Large size reel to hold 100 feet of line	2.50

GARDEN LINE.

Best grade 3/16-in. Cotton Garden Line, in any desired length.

Price, per 100 feet..... ...**$1.50**

ASPARAGUS KNIFE

Made of solid steel; see the cutting point. Price.. . .35c each.
Parcel post weight, 1 lb.

ASPARAGUS BUNCHER

Put your asparagus up in bunches, with this Improved Asparagus Buncher. It is adjustable for all lengths of bundles, correct in design and quick in operation. It makes a well-formed, compact bundle, adding greatly to the looks of the vegetable.

Parcel post wt. 5 lbs. Price. each....**$4.25**

HORTICULTURAL TOOLS AND SUPPLIES—Continued

"LITTLE WONDER" HEDGE TRIMMER

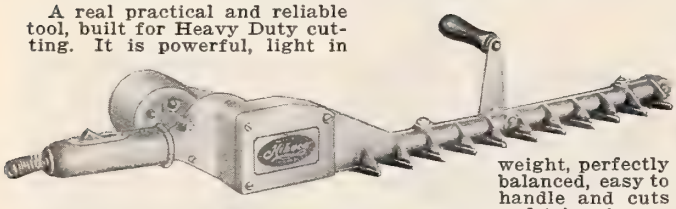
Hedge will improve in appearance after it is trimmed with the "Little Wonder," by reason of the straight cutting, no dips or round corners and other common faults often noticed in hedge trimmed by hand shears.

It is not near as hard work trimming, with the "Little Wonder" as the hand shears, it does not tire the wrists; in fact, it is a pleasure to walk along the hedge and turn the crank and see the hedge fly; it really operates astonishingly easy.

30-inch machine $25.00
40-inch machine 27.50
60-inch machine 35.00

HIBACO ELECTRIC HEDGE TRIMMER

A real practical and reliable tool, built for Heavy Duty cutting. It is powerful, light in



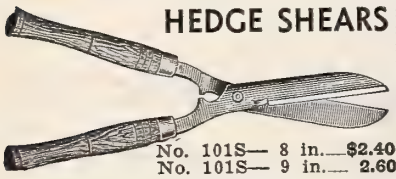
weight, perfectly balanced, easy to handle and cuts and trims in any position or at any angle. Simply plug into any electric socket and the trimmer is ready to go to work.

Specifications: Length of cutting blade, 16 inches. Length over all, 28 inches. Hardened steel gears. Universal motor, 110 volt, A. C. or D. C. current. Weight 8½ pounds.

Price $29.00

HEDGE SHEARS

Plain with notch and through tang, bolted.



No. 101— 6½ in. $0.95
No. 101— 8 in. 2.20
No. 101— 9 in. 2.40
No. 101—10 in. 2.60
No. 101—12 in. 3.10

Serrated edge, with notch and through tang, bolted.

No. 101S— 8 in. $2.40
No. 101S— 9 in. 2.60
No. 101S—10 in. 2.80
No. 101S—12 in. 3.25

LOPPING SHEARS

The Baltimore Draw Cut Shears is extra strong, and will cut large limbs with the least exertion.

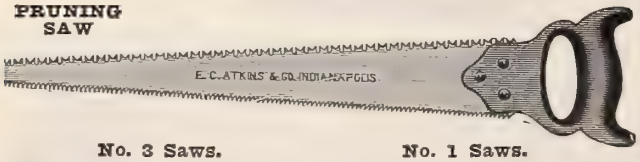
The No. 5406 Shear is light and strong and is very handy for light work. It will not tire you to handle it.

No. 5406—20-inch Handles $1.75
No. 5406—24-inch Handles 2.25
No. 5402—Baltimore Draw Cut, 24-inch handles 3.25
No. 5403—Baltimore Draw Cut, 22-inch handles 3.00
No. 5408—Forged Solid Tool, Steel Blade, 24-inch handles 2.50
No. 730—All Alloy Steel Lopping Shear, 30-inch handles 3.00

PRUNING SAWS

No. 16—14 in.
Price, $2.00
Extra Blades 35c

PRUNING SAW



No. 3 Saws.		No. 1 Saws.	
16-inch double	$1.65	16-inch single	$1.60
18-inch double	1.80	18-inch single	1.75
20-inch double	1.90	20-inch single	1.85

Water's Tree Pruners

4 feet $1.50
6 feet 1.60
8 feet 1.80
10 feet 2.00
12 feet 2.20
14 feet 2.40
Extra knives .20

Telegraph Tree Pruners

Price, without pole $1.50

Lineman Tree Pruner No. 2, $4.00

GRASS SHEARS

Bent Handle, No. 150 ..... 30c
Trowel Handle, No. 460 ..... 50c

GRASSNIPPERS

Here is a tool that will cut grass easier than a shear. Built like hair cutters. Blades are forged steel, warranted. Handle is malleable, will not break.

No. 017—Green $0.50
No. 227 ..... 1.60

DOO-KLIP GRASS SHEARS

DOO-KLIP GRASS SHEARS have a unique up-and-down action which supplies the blades with maximum cutting power. Always easy running, they prevent blisters, skinned knuckles and grass stains, and allow the hand and arm to be used in a free and natural position.

Price, $1.50.

Doo-Klip Pruners $1.25

Sheep Shears

No. 055E—5½-inch Polished Blades 1.00
No. 012E—5½-inch Polished Blades 1.50
No. 1914 — 6-inch Blades, full-polished 1.75

BORDER SHEARS

No. 105
With Wheel
Price,
$4.50

DOO-KLIP LONG HANDLED GRASS SHEARS

User stands erect at all times.

Shear is supported at proper cutting height by large wheels, which roll over easily. Good under shrubbery and bushes and in all difficult places.

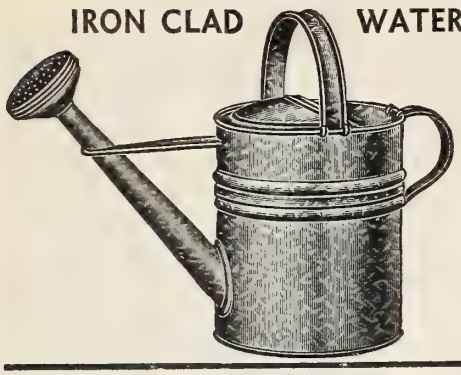
Price $2.50

LAWN SHEARS

No. 1062—2 wheels, 9-inch blade, for cutting on narrow borders, under fences and shrubs $4.50

FLORISTS AND GARDEN SUPPLIES

IRON CLAD WATERING POTS

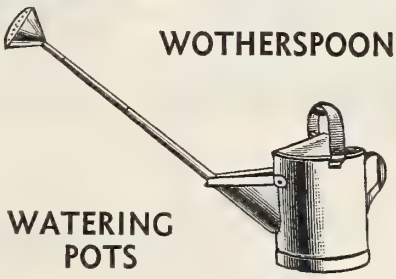


4-qt.	$0.65
6-qt.	.80
8-qt.	.90
10-qt.	1.00
12-qt.	1.20
16-qt.	1.50

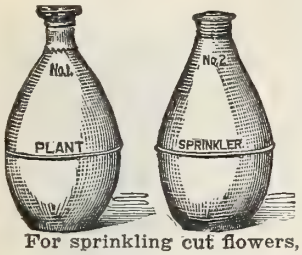
These pots are made from the best grade of galvanized iron, and are very heavy and strong. The long spout makes them very desirable for greenhouse and flower bed use. Each can is equipped with a fine and coarse nozzle, with copper perforation.

4-quart	$4.50
6-quart	4.80
8-quart	5.25
10-quart	5.60
12-quart	6.10

WOTHERSPOON WATERING POTS



PLANT SPRINKLERS



Putty Bulb

This Improved Putty Bulb is made from a good grade of rubber. For glazing greenhouses, new or old; will be found very handy.

Price $1.50

Parcel Post weight, 1 pound. We do not guarantee rubber goods.

For sprinkling cut flowers, seedlings, plants, clothes, etc.

No. C-1—Standard, 12-ounce Sprinkler.....$1.00
No. B-2—Spray Bulb Water or Powder..... .50

Parcel Post weight, 1 pound.

MASTICA

Mastica.—For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

1-Gallon Cans.....$2.25

MASTICA GLAZING MACHINE

OUR SPECIAL PRICE.....$2.75

ASPARAGUS TAPE

Spools of about 1,000 yards, $1.25 each. Postage extra. Parcel Post Weight, 2 lbs.

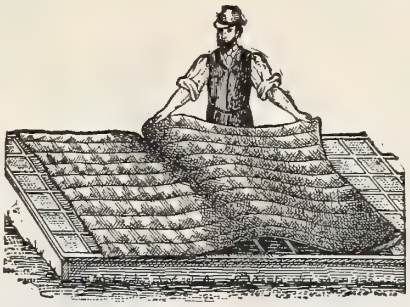
RAFFIA

The best material for tying Plants, Vines, etc.
Per pound.....25c.

GRAFTING WAX

¼-lb. .....15c. ½-lb. .....30c. 1-lb. .....50c.

BURLAP HOT-BED MATS



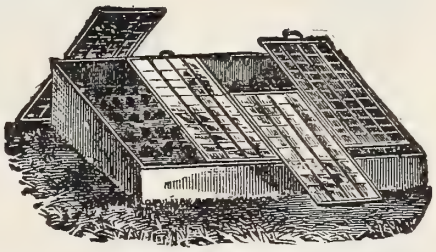
Made of strong burlap, interlined.

Price, 40 x 76, **Each $1.60**

Price, 76 x 76, **Each $3.00**

Special Price in Dozen Lots.

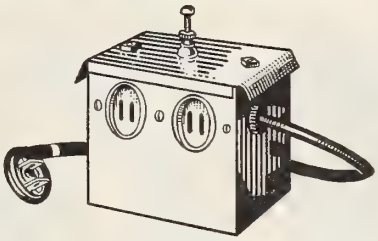
UNGLAZED HOT-BED SASH



3 ft. 2 in. x 6 ft.

Price, $1.85 each.

HOT BED GLASS—Prices on Application.



ELECTRIC HOT BED HEATER

Thermostat has the correct lag for efficient operation. The "Beacon" Thermostat in recent test with four other makes at the University of Maryland received high recommendation. One Thermostat will control 2 heaters.

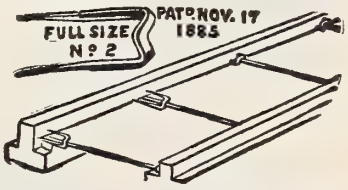
Model B-47—Thermostat only. Weight 4 lbs. Price, each.....$5.00
Model B-48—60-ft. heater wire. Weight 7 lbs. Price, each..... 4.00
Complete unit, sufficient for 2 hot bed boxes.....$9.00

PEERLESS GLAZING POINTS

(Imp. Van Reyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" or "lefts" to bother with.

Per box of 1,000.....75c
Pincers, per pair.....85c
Parcel post weight 2 lbs.



OUT-OF-SIGHT MOLE TRAP

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hot-beds and frames on account of convenient size.

Price $1.25

Parcel Post weight, 2 pounds.

LITTLE GIANT MOLE TRAP

Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction.

Price $1.00

Parcel post wt., 2 pounds.

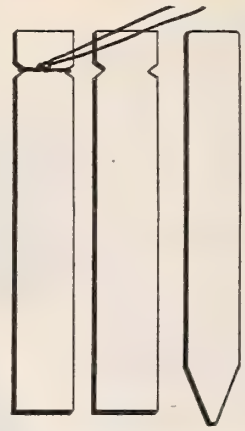
FLORISTS AND GARDEN SUPPLIES—Continued

POT LABELS

	Plain	Painted
4x⅝ in., per 1,000	$1.60	$2.00
5x⅝ in., per 1,000	1.80	2.20
6x⅞ in., per 1,000	2.00	2.50
8x⅞ in., per 250 Garden Labels		1.50
12x1⅛ in., per 100		1.00

Special price in quanities to florists.

PAINTED TREE LABELS	Per 1,000
3½-in., iron wired	$2.20
3½-in., copper wired	2.30



STAKES

HEAVY OR DAHLIA STAKES

	Ea.	Per Doz.	Per 100
3 ft.	12c	$1.15	$8.60
4 ft.	15c	1.55	11.40
5 ft.	20c	2.25	14.60
6 ft.	25c	2.50	17.90

LIGHT PLANT STAKES

	Ea.	Per Doz.	Per 100
1½ ft.	3c	$.25	$1.50
2 ft.	4c	.40	2.80
2½ ft.	6c	.60	4.10
3 ft.	8c	.75	5.40

GALVANIZED STEEL STAKES

	100 weigh	Per doz.	Per 100	Per 1,000
3 ft.	14 lbs.	$.40	$2.00	$13.75
4 ft.	19 lbs.	.50	2.50	18.55
5 ft.	24 lbs.	.65	3.00	22.50

CANE STAKES
5 to 7 feet long
Per 100 $1.25 Per 1,000 $10.00

DENNIS PLANT STAKES

With Rattan Coil.

Better than wire as sun does not heat the coil and burn plant.

	Each	Dozen
3 ft.	10c	$1.00
4 ft.	12c	1.20
5 ft.	15c	1.50

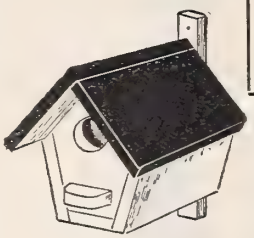
Extra Rattan, 3 cents per foot

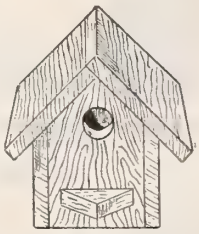
G. B. VINE SUPPORTS

For training Ivy, Rose Bushes and all other climbers, on brick, cement or wood surface, without defacing it. **Box of 25—$1.00.**

JAPANESE BAMBOO STAKES (Dyed Green)

2 feet Dozen	2 feet 100	3 feet Dozen	3 feet 100	4 feet Dozen	4 feet 100
15c	45c	25c	75c	35c	$1.25





HEAVY NATURAL CANE STAKES

	Dozen	100
6 feet	20c	$1.25
8 feet	30c	1.40

BIRD HOUSES

These houses are made from ¾ inch White Pine, nicely painted, white enamel bodies with the roofs painted green, or finished in rustic brown stain.

The No. 1 House is made with slanting sides so arranged that the bottom dovetails in, making it so it can be pulled out as a slide for cleaning the house. It can also be mounted on a pole by nailing the bottom on top of pole and sliding the house over it.

The No. 2 House has a removable bottom held in place by four screws, and this house can be mounted on a pole by nailing the bottom on top of pole, placing the house in position and replacing the screws.

No. 1 Bird House for Wren or Bluebird, Painted or Rustic Brown $1.00

No. 2 Bird House for Wren or Bluebird, Painted or Rustic Brown ..... .75

No. 201

THERMOMETERS

No. 3383—6-inch Cabinet, magnifying tube, black oxidized scale, white figures and graduation, brass screw clasps and guard, back oak finished, natural. Fine Household Thermometer 50c

No. 3388—8-inch Cabinet, magnifying tube, black oxidized brass scale, white filled figures, nickeled straps and guard, wood back, finished in birch 60c

No. 905—10-inch tin japanned 30c

No. 7000—12-inch Tobacco Curing, best quality, tested 70c

No. 3391—8-inch Distance Reading; an excellent thermometer for greenhouses and for use where it is necessary to get a quick reading 25c

No. 3002—Incubator Thermometer, may be used for a stand-up or reclining with proper holder. With holder, each 75c

No. 4001—Brooder Thermometer, round wood back, each 50c

No. 4011—Thermometer for all Brooders, metal back 45c

No. 5316S—Temprite Window Thermometer with hanger for outside of window or door, Red Spirit, Large Figures, easy to read $1.00

No. 5452—Self-Registering, boxwood scale, black filled figures, japanned tin case, 10 inch $8.50

No. 5981—Hot Bed, 16 inch, wood frame, with handle, brass pointed ferrule, brass oxidized scale, white-filled figures and graduations $3.00

No. 5740—Standard Dairy, stands boiling water; black oxidized brass scale, white-filled figures and graduations, range from 20 to 200 degrees $1.00

No. 201—Large Size Floating Glass Dairy 50c

No. 7236—Milk Hydrometer (Quevnne) $1.50

No. 7240—Lime-Sulphur Hydrometer $1.50

No. 7410—Lime-Sulphur Hydrometer, with test jar $2.25

No. 3383

If thermometers are wanted by parcel post, add 10 cents for postage and packing.

National Eezy Wear Garden Gloves

Made from special imported hides processed to render them amazingly soft and pliable. Permit almost barehand freedom yet provide complete all-leather protection. Ideal for garden and similar uses.

DIRT-PROOF—DURABLE—WASHABLE

Four sizes "SMALL" and "MEDIUM" for Women, "MEDIUM" and "LARGE" size for Men.

Price 75c a pair, 2 pairs for $1.40.

BESTYETTE

PLANT LABEL

Made of Aluminum, with reversible soft copper pad, on about nine inch support, which is inserted in the ground. Mark with an ordinary lead pencil.

Price 6 cents each; 50 cents per dozen.

THE PERFECT GARDEN LABEL

(BORDER SIZE)

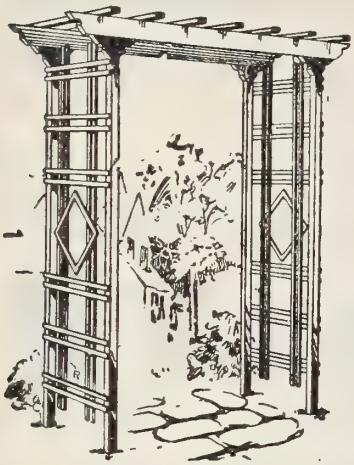
Any ordinary lead pencil can be used to mark name of plant on horizontal marking space of this label. Set it in the ground near plant to be marked and set deep, so that only marking space shows.

This marking will last for several years in any soil, or in any weather. Same can be erased for other use. Green in color, which makes them blend with foliage.

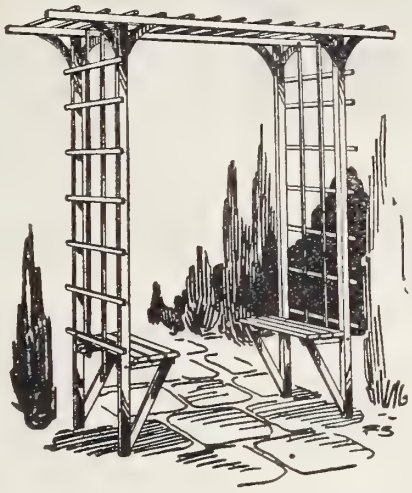
Price: 12 for $1.00; 25 for $2.00

TRELLIS—ARBORS—PERGOLAS

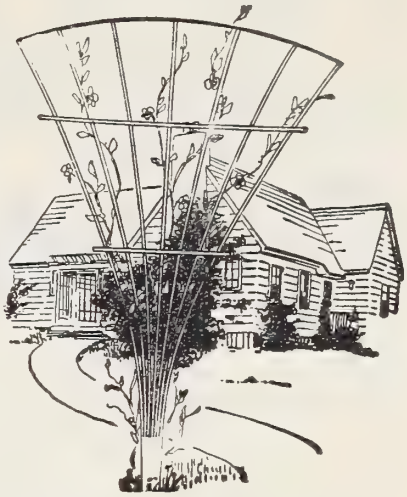
PERGOLA



ARBOR



FAN TRELLIS



We have a full line of the above, made of Tidewater Red Cypress. Will last for years. Call and inspect.

NO FREIGHT OR EXPRESS SHIPMENTS.

LUXOR DECORATED CUT FLOWER JAR

No. 2

7 inch	$0.40
9 inch	.60
11 inch	.80

WRITE FOR INFORMATION RESPECTING MANY OTHER ATTRACTIVE DESIGNS

BIRD BATHS

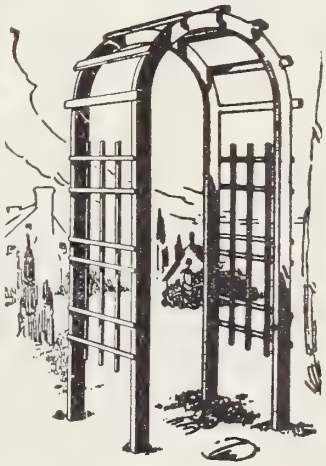
	Dia.	Height	Price
No. 2 Bird Bath, like cut	20 in.	23 in.	$4.50
No. 4 Bird Bath, plain	20 in.	24 in.	4.25
No. 6 Bird Bath, decorated	17 in.	23 in.	4.00

LUXOR BULB BOWL

No. 1

6½ inch 20c

CIRCULAR TOP ARCH



LUXOR BULB BOWL

No. 2

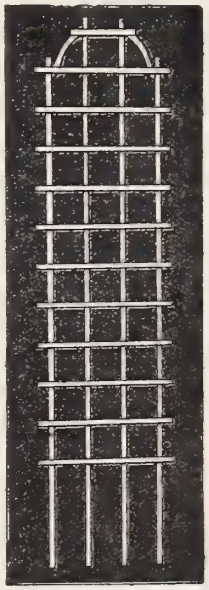
8 inch	$0.50
9 inch	.60
No. 3 Luxor Bulb Bowl, 7 inch	.35

LENNOX HANGING BASKETS

With Saucer attached, complete with Hanging Chain.

Price: 8-inch, 60c; 10-inch, 85c.

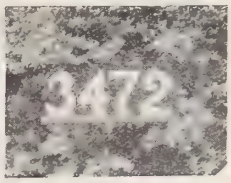
TRELLIS



HOUSE NUMBERS or NUMERAL SIGNS

Large attractive white numbers, for your house or lawn, that can be seen.

Numbers, each	$ .30
Stands, each	1.00
Stand, with four numbers, complete	2.00



ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

U. S. PLANT TUBS

These plant tubs are made from best grade cedar, with strong iron handles and feet. Just the thing for Palms, Rubber Plants, etc. Painted Green with Black Trimmings.

	Outside Top Diameter	Depth	Price
No. 1	12	10¾	$2.15
No. 2	13	12¾	2.80
No. 3	14½	14¾	3.45
No. 3½	16½	15¾	4.55
No. 4	19⅞	16⅝	4.90
No. 5	22⅞	18½	6.40

CEDAR PLANT TUBS

RICHMOND STYLE

The Richmond style fills a long felt want for a cheap type of plant tub and is being used by many large florists in place of earthen pots. These plant tubs are nicely painted with the best oil paints—a handsome green color inside and out. The tops of the staves are slightly beveled, which gives them a neat, trim finish.

Size	Inside Top Diam. In.	Inside Bot. Diam. In.	Inside Depth In.	Thickness of Stave In.	Price Each
No. 3	8	6	8	⅜	$ .60
No. 4	9	7	9	⅜	.65
No. 5	10	7½	9	7/16	.75
No. 6	11	8½	10	½	.95
No. 7	12	9	11	½	1.15
No. 8	13	10	12	½	1.45
No. 9	14	11	13	⅝	1.60
No. 10	15	11½	14	⅝	1.80

IMPORTED GRANULATED PEAT MOSS FOR GARDENS

Granulated Peat Moss is fine for garden mulch, as it conserves moisture. When incorporated in the soil, it promotes growth and supplies humus, which is very essential for growing plants. When used in connection with fertilizers, flowers and plants should grow very luxuriantly.

5 lbs. **30c**—25 lbs. **$1.00**—½ Bale **$1.50**—Bale **$2.25**

SPHAGNUM MOSS—For packing Orchids, Plants, etc. Per bale **$2.75**

POULTRY LITTER—Imported; used largely in laying houses, will absorb moisture 8 to 10 times its weight. Better than straw or other litter for laying hens; will last 3 or 4 times longer than straw bales **$2.50**

"PLANTRAY"

Rubber flower pot saucers. Protects surfaces from dampness, ringmarks and preserves pottery.

4 in. 15c each. **6 in. 25c each.**
10 in. 50c each.

GROW FLOWERS AND POTTED PLANTS!

If you feed your potted plants, flowers and vegetables on Plantabbs each week or ten days they'll grow lots better than any fertilizer will make them grow. Plantabbs are a complete food in odorless tablet form—guaranteed to contain 11% nitrogen (ammonia), 15% phosphoric acid and 20% potash.

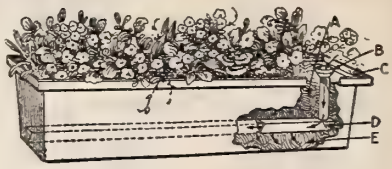
Include in your next order. Price:

30 Tablets	25c.
75 Tablets	50c.
200 Tablets	$1.00.
1000 Tablets	3.50.

FULTON'S
Plantabbs
ODORLESS PLANT FOOD TABLETS

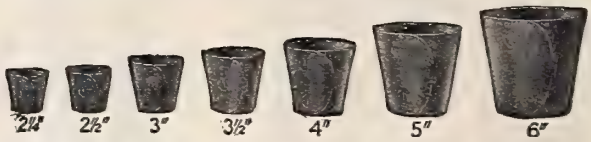
PLANT BOXES—GALVANIZED (Green Finish)

Sub-irrigating device insures uniform distribution of water and air throughout the entire length of box. Best results obtained by putting gravel, charcoal, moss or something of the kind in bottom of box up level with top of horizontal water conductor. Then fill with rich earth. Water through upright tube.



Size 24x8½x7¼ inches	$1.25
30x8½x7¼ inches	1.40
36x8½x6¼ inches	1.75

BIRD'S RED Improved Neponset FLOWER POTS



The **Improved** Bird Neponset Flower Pot is now ready for the truck gardener, the florist—every grower of plants on a large or small scale.

Month of testing under actual growing conditions have proven that this **Improved** Pot can be used successfully when seedlings are to be carried from six to eight weeks.

	Per Doz.	Per 100	Per 1000		Per Doz.	Per 100	Per 1000
2¼ in.	$ .08	$ .50	$3.80	4 in.	$ .25	$1.00	$8.00
2½ in.	.10	.60	4.10	5 in.	.30	1.50	10.50
3 in.	.15	.70	5.10	6 in.	.40	1.85	14.00
3½ in.	.20	.85	6.60				

These sizes carried in sock. Packed 500 to case on special order.

BLACK NEPONSET FLOWER POTS

Same shape and style as Red Pots, but Black.

	Per. Doz.	Per 100	Per 1000
2½ in.	20c	75c	$5.00
3 in.	25c	90c	6.00
4 in.	30c	$1.25	9.00

Can be used to start plants from the seed, until plants are fully matured. Will not get soft and collapse when put in contact with water.

B-B WATERPROOFED SEED FLATS

Each containing 12 2-inch pots. Start your flowers indoors, this modern way and have earlier and better flowers.

One flat and 12 2-in. pots., 15c each. 2 for 25c.

EARTHENWARE FLOWER POTS and SAUCERS

Pots	Each	Dozen	100	Saucers	Each	Dozen	100
2 in.		$0.20	$1.25				
2½ in.		.25	1.65				
3 in.		.30	2.00				
4 in.	$0.05	.45	3.00			$0.40	
5 in.	.07	.70	5.50		$0.06	.60	
6 in.	.10	1.15	8.00		.08	.90	
8 in.	.25	2.40			.14	1.65	
9 in.	.35	3.75			.18	2.00	
10 in.	.55	5.00			.22	2.60	
12 in.	.90				.35	4.00	
14 in.	1.60				.50		
16 in.	3.00				.85		

STIM-U-PLANT

PLANT STIMULANT TABLET

Makes REPOTTING OF house plants UNNECESSARY, as it replaces the food withdrawn by the growing plant.

Because of its ready solubility, **STIM-U-PLANT** can easily be used as a liquid manure, by dissolving the tablets in water at the rate of four to the gallon.

Small size, 30 tablets....**$0.25**
Large size, 100 tablets... **.75**

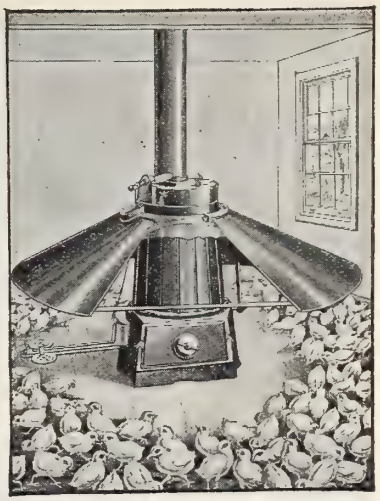
EUREKA COAL BURNING BROODER STOVE

Eureka Coal Burning Brooder Stoves to take the place of the old Queen Brooder Stove.

The Eureka Colony Coal Burning Brooder is an improved design of Brooder Stoves and is made of high quality cast iron, and will last indefinitely.

There is no damper in smoke pipe on the Eureka. The check draft rests on top of the above and opens outward. When the fire is too warm, this gives a gentle inflow of air to retard the heat.

The Eureka stove burns any kind of fuel with equally satisfactory results. We recommend chestnut sizes in all kinds of fuel, and hard or soft coal, coke or charcoal burn equally well. Of course, hard coal will not cause the pipe to become dirty as quickly as the others, but it will give no better heat.



PIPE FOR STOVE BROODERS

4-inch Galvanized Pipe, in 10-foot lengths, per foot.....12c
5-inch Galvanized Pipe, in 10-foot lengths, per foot.....18c
4-inch Galvanized Elbows.....35c
5-inch Galvanized Elbows.....40c

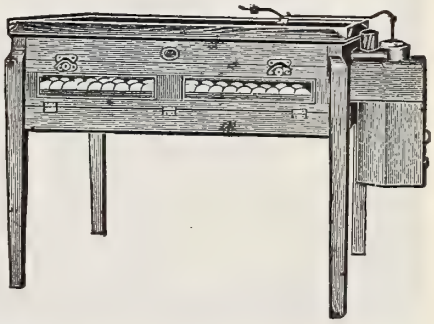
	No. 11 Capacity 350 Chicks	No. 22 Capacity 500 Chicks	No. 33 Capacity 800 Chicks	No. 61 Capacity 1,000 Chicks
Size Smoke Pipe	4 in.	4 in.	4 in.	5 in.
Height to Top of Stove	22 in.	25½ in.	27 in.	35 in.
Diameter of Cylinder	10 in.	11 in.	13 in.	15 in.
Diameter of Hover	42 in.	52 in.	56 in.	60 in.
Coal Capacity	26 lbs.	37 lbs.	50 lbs.	64 lbs.
Diameter of Grate	9 in.	10¼ in.	11½ in.	11½ in.
Height of Hover from floor	8½ in.	11 in.	13 in.	13 in.
Shipping Weights (complete)	82 lbs.	105 lbs.	122 lbs.	165 lbs.
Price	$14.00	$17.50	$21.00	$27.00

MOE'S INCUBATORS

Remember, it is not how many chicks you hatch, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you but trouble and loss.

PROPER INSULATION. The Moes is doubly insulated. First, we have double walls of California redwood, forming a dead air space. Second, corrugated strawboard is used between the wooden walls.

MOE'S HOT-WATER HEATING—The Moe System of hot-water heating prevents the drying out tendencies found in the hot-air incubators and provides a soft uniform heat over every part of the egg chamber—a heat that is most natural for the hatching eggs. The circulation of water through the radiator prevents any moisture being added or taken away from the eggs. When it becomes necessary to remove the lamp, the hot water circulating through the radiator maintains an even heat within the egg chamber without the slightest variation.



	Capacity	
165	85 egg	$15.80
167	150 egg	19.75
168	250 egg	24.00
170	400 egg	31.25
172	600 egg	38.00

Can supply Electric Incubators, $3.00 each higher than above price, all with egg-turning tray.

No. 100 Lamp Bowl, takes No. 1 Burner.....$0.50
No. 101 Lamp, takes No. 2 Burner.....60
No. 102 Lamp Bowl, takes No. 3 Burner.....75
No. 213 Burner, No. 1 size, ⅞ in. flue, ⅝ in. wick.....35
No. 202 Burner, No. 2 size, 1 3/16 in. flue, ⅞ in. wick.....40
No. 203 Burner, No. 3 size, 1¾ in. flue, 1½ in. wick.....65
Zenith Burners, No. 1.....50

⅝ in. Wicks 3c each, 25c doz. ⅞ in. Wicks 5c each, 45c doz. 1½ in. Wicks 8c each, 55c doz.

Adjustable Roof Saddles, No. 440, 4 in.....$1.35
Adjustable Roof Saddles, No. 441, 5 in.....1.45
Smoke Pipe Cap, No. 444, 4 in.....30
Smoke Pipe Cap, No. 445, 5 in.....35

CAPONIZING TOOLS

You can do your own caponizing easily with this set of tools. Each tool is made for this especial work, and is of the highest grade. These sets are packed in a neat wooden box.

Philadelphia Set.....$3.50
Farmer's Set..... 3.50

PHILADELPHIA GAPE EXTRACTOR, 30c. each.

French Poultry Killing Knife

Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, **60c.**

LICE KILLER AND NEST EGG Combined in One

Lasting, effective. Not expensive. Does not affect the flavor of the egg nor injure it for hatching. **60c dozen.**

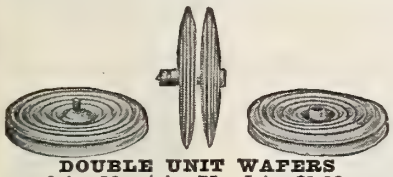
WIRE HEN NESTS

Each 20c
Per Dozen.....$2.35

PORCELAIN NEST EGG

The best and cleanest nest eggs used. Each **5c**, doz. **30c.** By mail **40c.**

BROODER STOVE WAFERS



DOUBLE UNIT WAFERS
3 in. **30c**, 4 in. **75c**, 5 in. **$1.00**

LANSDOWNE POULTRY MARKER

Our special price **25c.**

LEG BANDS

ALUMINUM BANDS

No. Bnds.	12	50	100	500	1000
Price	$0.15	$0.40	$0.65	$3.00	$5.50

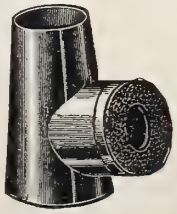
CELLULOID BANDS

	No. 91 ¾-in.	No. 92 7/16-in.	No. 93 ½-in.
12 Bands	$0.15	$0.15	$0.15
50 Bands	.40	.35	.30
100 Bands	.70	.60	.50
500 Bands	3.25	2.75	2.25
1000 Bands	6.00	5.00	4.00

No. 50 RELIABLE EGG GRADING SCALE

A rapid accurate grader, with a brass beam and egg holder, and weighs all standard grades from 16 oz. to 32 oz. per dozen eggs. Price **$1.90**, postage 10 cts. extra.

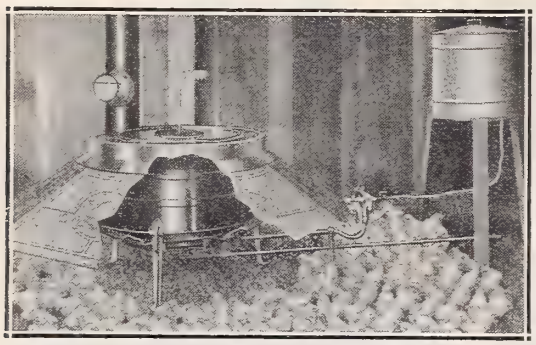
EGG TESTER



Price 25c, postpaid 35c

INCUBATOR THERMOMETERS (Stand up)

No. 3002 Each $0.75
No. 4011 Brooder Thermometers, metal, each.....45
No. 4001 Brooder Thermometers on wood, each.....50



STANDARD OIL-O-STAT

MAKOMB COAL AND OIL BROODERS

A Drum Type Brooder, practical, trouble-proof and efficient, equipped with cast iron furnace type burner and die-cast automatic valve. Built in three styles, the Standard, Senior, and Junior. Burns distillate or furnace oil. Lowers fuel cost one-third to one-half. MaKomb design provides long heat travel. Twin blast furnace type burner requires no priming and will not go out. New Easy Clean device makes possible operating through entire season without lifting top door. Automatic draft adjustor prevents back draft and saves fuel. No smoke, gas or fumes. Provides automatic ventilation for brooder house. Maintains constant temperature under positive control. Tanks hold 8 gallons of fuel, sufficient for two to four days. Equipped with new hexagonal tilting canopy. Comes complete with tank and all fittings except smoke pipe.

Catalog Number	Canopy Size	Model	Main Drum Depth	Htr. Dia.	Chick Cap.	Shipping Weight	Price
A4-1956	56"	Standard	11¼"	24"	600	100 lbs.	19.80
A4-1965	65"	Standard	11¼"	24"	1,000	105 lbs.	21.75

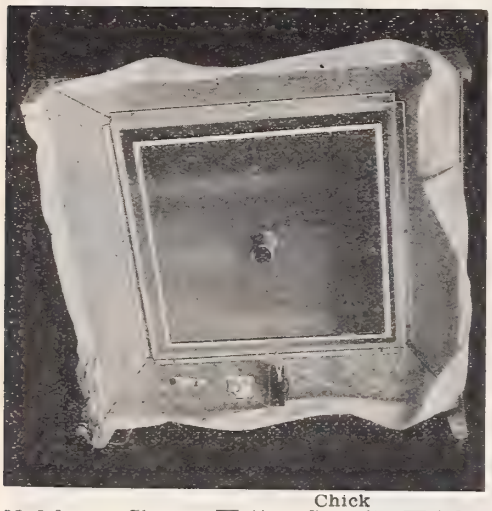
MAKOMB GIANT COAL BROODER

The Macomb Coal Brooder (Canopy-hooded)

Famous for large capacity, positive control and convenience. The only large capacity brooder—equipped with many exclusive features—at popular prices. The famous By-Pass Control insures efficient operation with either soft or hard coal, checks fast burning, and prevents high winds effecting operation. The fluted barrel, larger at bottom, permits coal to settle without bridging. Two-way By-Pass Damper is positive in action, simple, nicely balanced. Ashes or smoke never contact it to cause trouble. Extraordinary fuel capacity prevents burning out at night.

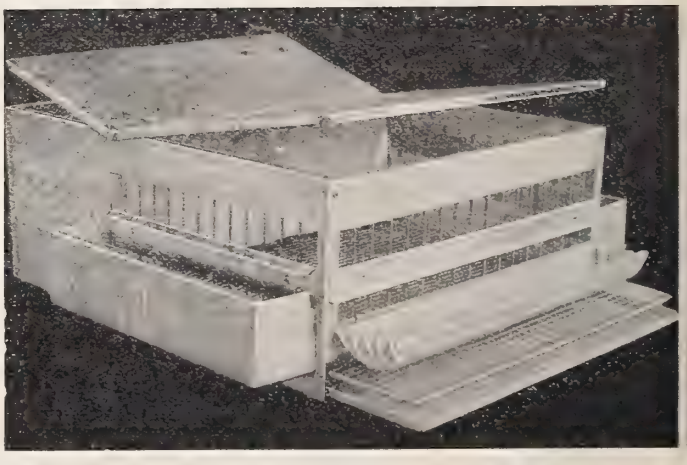
Canopy	Capacity	Price Each	Catalog Number
56 in.	600	$19.80	B4-1256
56 in.	700	22.50	B4-1356
56 in.	500	14.75	B4-656
65 in.	700	16.75	B4-665

"BESTOF ALL" ELECTRIC CANOPY BROODER

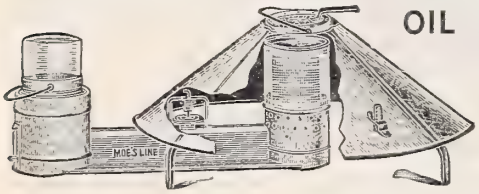


This model is equipped with the famous "Beacon" heater, giving uniform temperature over entire canopy and "BESTOF ALL" quick make and break switch that really controls. Regular models for 110 volt can be furnished for either 110 or 220 volts as it is equipped with two complete circuits.

Model	Size	Watts	Chick Capacity	Weight	Price
B-13	60"	1,000	650	75 lbs.	$21.75

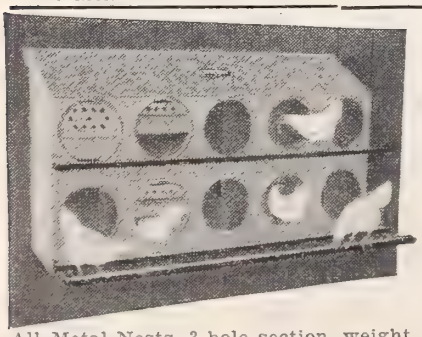


MOE'S KEROSENE "BLUE FLAME" OIL BROODER



Automatic Blue Flame Brooder. Advanced in design and equipped with new canopy.

	Capacity	Shipping Weight	Price Each	Catalogue Number
42-inch	300	44 lbs.	$11.00	226
52-inch	500	52 lbs.	12.00	227



ALL-METAL LICE-FREE SANITARY NESTS

The nest boxes are 11½ inches wide and 13 inches deep, with a 9¼-inch nest-hole, sufficiently large for average flocks. Trap Front furnished if desired, **50c. each extra.**

All Metal Nests, 3-hole section, weight 25 lbs. $4.75
All Metal Nests, 5-hole Double Tier Section, w'ght. 35 lbs. 5.00
All Metal Nests, 10-hole Double Tier Section, Wt. 35 lbs. 8.50

ADJUSTABLE CHICK TROUGHS

H3-248—48-inch, without stand 80c

WASTE NOT CHICK TROUGHS

H2-140—40 inches long $1.50
H2-130—30 inches long 1.25

H4-2048—Wire Grid for Pullets and Fowls $1.00
H4-12—Wire Top Trough, 12 in. long ..... .15
H4-35—Wire Top Trough, 24 in. long ..... .25

"CONTENTED CHICK" BROODER

Sides and ends open, allowing plenty of ventilation and ample feed space so heavy birds will eat through feed openings. Heating element and thermostatic switch can be raised or adjusted conveniently. Controlled by our "BESTOF ALL" quick break switch. 10 ft. of cord and curtain. The Brooder has same no-waste feed pans; one-piece water pans and die drawn tinned floors.

Model	Size	Watt	Wt.	Price
B-1—Electric automatic	24" wide—30" deep	150	35 lbs.	$8.95
C-4	20" wide—24" deep	Bulb Heated		4.50

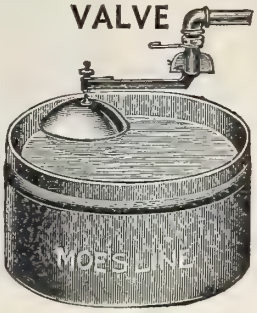
ONE PIECE CHICK FEEDER

New, one piece, water tight die formed feeder perfectly proportioned. Ends tightly folded, have two positions for red reel. Depth 2", width 3¾". Flanged edge ½" wide.

H4-324—24-inch One Piece Feeder 30c
H4-336—36-inch One Piece Feeder 40c

Poultry House Equipment

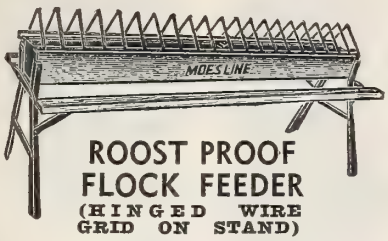
AUTOMATIC WATER VALVE



Valve is threaded for ¼ in. iron pipe. The wire hook holds the float up while pan is being cleaned or removed.

No. 30—Automatic Valve and Float only. Packed 12 in a carton. Shipping weight 6 lbs. per dozen, 10 oz. each.

Price:
Each **$1.00**
Dozen .. **$12.00**



ROOST PROOF FLOCK FEEDER

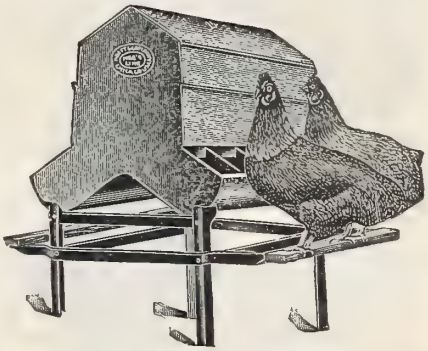
(HINGED WIRE GRID ON STAND)

The trough rests securely on the stand, but can be removed.

No. 355—Complete with stand and guards, 5 feet long **$4.75**

No. 356—Trough only with wire guard, no stand **$3.00**

MOE'S MAMMOTH DRY MASH HOPPER



A large capacity hopper built on correct principles. Made of heavy galvanized iron. The stand is of heavy angle iron, painted, and has wooden bars for the poultry to rest on when feeding. Length of hopper 35 ins., width 21 ins., height 18½ ins. Capacity, 100 lbs. Height of stand, 15½ ins. Total height 34½ ins. Packed one in a box. Shipping weight 50 lbs.

No. 3 Hopper and Stand complete, price, each **$5.95**

ALL-PURPOSE FLOAT FOUNTAINS

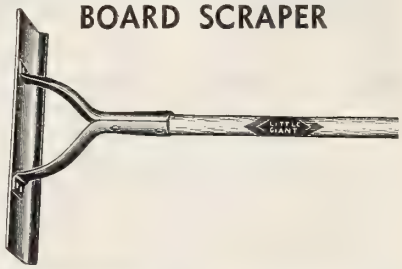
Equipped with the famous Beacon "BEST-OFALL" valve—these fountains have reduced labor costs for hundreds of users.

W-13—adapted for baby chicks—yet one of the largest poultry raisers in Maryland uses them exclusively on the range. The valve is all brass and double acting—no adjustments.

The double acting brass valve is new and trouble proof. Convenient handle for carrying a neat fitting cover with the new spring action shield. And the price—never before has the poultry-man bought such value.

Model	Capacity	Carton	Weight	Price
W-13	10 qt.	3	14	$1.50 ea.
W-14	5 gal.	1	8	2.25 ea.
W-15	8 gal.	1	11	3.50 ea.

HANDY ANDY DROPPINGS BOARD SCRAPER



Blade, 3½x12 inches; Handle, 4½ feet long.

Handy Scraper No. 75, each **$0.75**

MOE'S INSULATED DOUBLE WALL FOUNTAINS

Moe's Insulated Poultry Fountains are made of heavy galvanized iron with thick double walls. The space between the outer and inner wall is packed with a highly efficient insulating material which keeps the water warm in winter and cool in summer.

In Winter. Fill at night with hot water, keep in basement or warm room, and in the morning the water will be of the right temperature for the poultry house. The hot water thoroughly heats the insulated walls during the night, so freezing is retarded during the day.

In Summer. Fill with cold water, place in shady spot, and the water will remain cool and fresh all day.

No. 7—5 Gallons **$4.50**

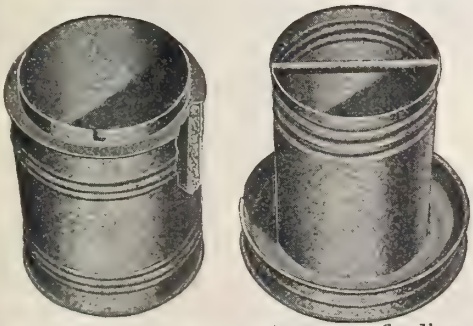
DREW CHICK TANK

The Drew Chick Tank is 1½ gallon capacity. It is rust proof and sturdy—an ideal, large capacity waterer.

There are only two parts to this waterer—the bucket and the watering pan. You will appreciate the value of this economical Drew waterer.

DB-507—Drew Chick Tank; weight, 6 pounds. Price **$1.25**

THE TOP-FILL INSOFOUNT



Top-Fill Insofount — Balsam Wool insulated —can be cleaned or filled by pulling off the outside can. Durable locking device holds Outer and Inner assemblies together for easy and safe handling. Wooden roller handle prevents roosting. Positive Spring Valve—exclusive trouble proof design—prevents water flooding when removing Outer can. Made of copper bearing steel. Drink all around.

	Shipping Weight	Price Each	Catalog Number
3-Gallon	15 lbs.	$2.00	G3-43
5-Gallon	18 lbs.	3.00	G3-45

POULTRY LITTER

Imported from Germany; used largely in laying houses, will absorb moisture 8 to 10 times its weight. Better than straw or other litter for laying hens; will last 3 or 4 times longer than straw bales. **$2.50.**

NESCO DRINKING FOUNTAIN

4 Quarts 35c

The round taper shape prevents damage from freezing.

No.	Capacity	Each
19	1 Quart	$0.25
20	2 Quarts	.30
24	1 Gallon	.40

BOTTOM FILL FOUNTAINS

NO. 32 MOE'S STAR FOUNTAIN AND FEEDER

Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feed as well as water. Little chicks cannot drown. Fits any Mason jar in 1 Pint, 1 Quart, and 2 Quart sizes.

No. 32 (Glass jar not included),
Each $0.10
Dozen 1.00
Gross 12.00
Packed 1 gross to case.

NO. 133 MOE'S STAR BUTTERMILK FEEDERS

Made of Bright Charcoal Tin Plate, which is not affected by milk acids. Makes an absolutely safe and sanitary feeder for buttermilk and sour milk.

Packed one gross in carton. Shipping weight, per gross, 35 lbs.; per dozen 4 lbs.

No. 133 Star Fountain in Tin Plate.
Price, each $0.10
Dozen 1.20
Gross 14.40

GEM CHICK FOUNTAINS

A good, inexpensive fountain for chicks or grown fowl.

No. 158—1 gallon 50c
6 in box, 15 lbs.

No. 159—2 gallons 70c
6 in box, 18 lbs.

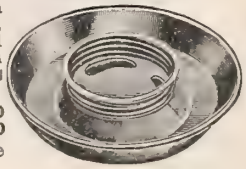
FEED AND DRINKING CUPS

GALVANIZED

Especially suitable for Exhibition Coops.

No. 61—Each $0.10
Doz. 1.20

MASON JAR FOUNTAIN

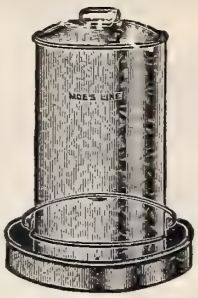


No. 142. Mason Jar Fountain, made of tin, and is screwed on an ordinary glass jar.

Price, each..$0.10
Dozen..... 1.20

(Glass jars are not included.)

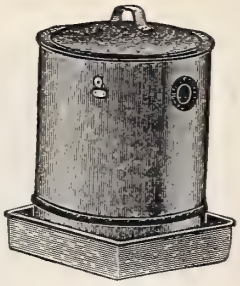
MOE'S TOP FILL CLEANABLE FOUNTAIN



Made of heavy galvanized steel with double walls, which keeps the water cool in summer, and retards freezing in winter.

No. 33. Two gallons. Shipping weight 6 pounds.
Each $2.00

No. 34. Four gallons. Shipping weight 9 pounds.
Each $2.50



Moe's "Top Fill" Fountain

Automatic Feed Easy to Fill and Keep Clean

No. 1—1 Gallon $1.25

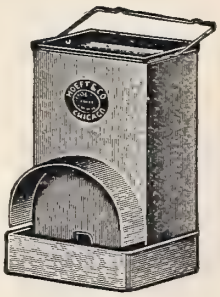
No. 2—2 Gallons $1.75

Drop Bottom Fountain

Drop bottom, easy to fill and to clean. May be hung on the wall out of the litter.

No. 40-D—½ gallon 35c

No. 41-D—1 gallon 40c



MOE'S WINTER FOUNTAIN

Capacity 5 and 10 Gallons

A simple and reliable fountain with heater. Made of heavy galvanized iron, easily filled, with nothing about it to get out of order.

Packed 1 to a case.

No. 75—Fountain and Heater, 5 gal. $3.25
No. 78—Fountain only, capacity 10 gallons 2.25
No. 74—Tank only 1.50
No. 10—Heater only 1.75
No. 79—10 gal. Fountain and Heater 4.25

CRESCENT FOUNT

For growing stock and large poultry. Double walls.

No. 269—3 gallons $1.60

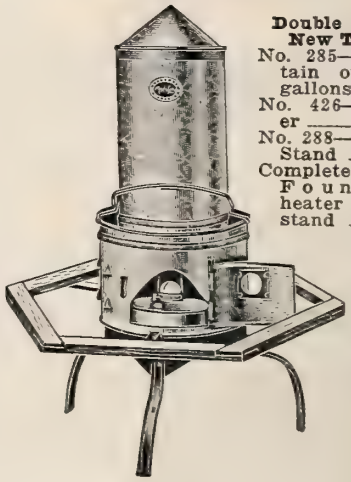
No. 270—5 gallons $1.95

FLOAT VALVE FOUNT

Float Valve Fount, with cone-shaped perch roof, inner carrying handle, guaranteed to control valve.

5HS—5-gallon capacity, fount only $2.50
Add for Heater 2.25
Add for Stand 1.50
Complete $6.25
10HS—10-gallon capac., fount only $3.90
Add for Heater 2.25
Add for Stand 1.50
Complete $7.65

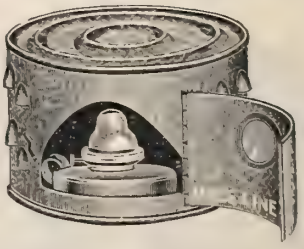
MONARCH WINTER FOUNTAIN ON STAND



Double Wall New Type

No. 285—Fountain only, 5 gallons $2.65
No. 426—Heater $2.20
No. 288—Stand $1.75
Complete, with Fountain, heater and stand $6.60

MOE'S FOUNTAIN AND BROODER HEATER

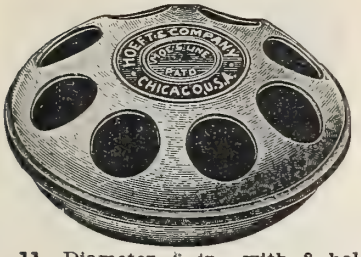


Can be used with all styles of fountains, and effectively prevents water from freezing.

The lamp fount or bowl holds sufficient kerosene to burn continuously for seven days. Simple and safe. Nothing to get out of order.

No. 10—Oil Heater $1.75
No. 426—Large Oil Heater $2.20
No. 436—Electric Heater, Complete, same size as No. 10 ..... $2.75

BABY CHICK FEEDERS (Galvanized)



No. 11—Diameter 6 in., with 8 holes, each **10c.** Packed ½ Gross to Case.

No. 12—Diameter 8¼ in., with 12 holes, each **15c.** Packed ½ Gross to Case.

MOE'S EXERCISER AND FEEDER (HANGS TO CEILING)

No. 152, Cap. 8 lbs. **$1.00**

Moe's Buttermilk Feeders

(Same style as No. 12 Chick Feeder)

Made of Bright Charcoal Tin Plate, which is not affected by milk acids. Makes an absolutely safe and sanitary feeder for buttermilk and sour milk.

No. 131—Moe's Round Tin Feeders. Diameter 6 inches, with 8 feeder holes. Packed ½ gross in a carton. Shipping weight per gross 55 pounds; per dozen 5 pounds. **Price,** each **15c,** per doz. **$1.80**

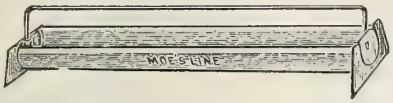
No. 132—Moe's Round Tin Feeders. Diameter 8½ inches, with 12 feeder holes. Packed ½ gross in a carton. Shipping weight per gross, 110 pounds; per dozen, 10 lbs. Each **25c,** doz. **$2.75.**

MOE'S OAT SPROUTER

Steel frame, well braced and painted. With six heavily galvanized iron pans which are interchangeable. Provides the very necessary green feeds at all seasons.

Total height 3 feet. Size of pans 16x18 in.

No. 110—Oat Sprouter.
Each **$4.00**



MOE'S DIXIE CHICK FEEDERS

No. 460, 18 in. Long 20c
No. 462, 30 in. Long 30c

Moe's Swing Top Chick Feeders

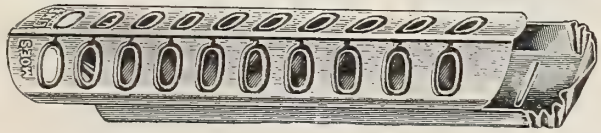
No. 458, 12 in. Long 25c
No. 459, 24 in. Long 45c
No. 463, 3 ft. Long 60c
No. 464, 4 ft. Long 80c

Heavy Tin Buttermilk Feeders

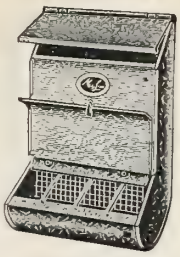
Feeding Troughs in Tin Plate. Sliding Top. Easy to clean. No seams, rivets or solder. Clean, sanitary feeders.

No. 137—10 in. 10 holes. Packed 24 to case. Ea. **20c.** Doz. **$2.40**

No. 138—20 in. 20 holes. Packed 12 to case. Ea. **30c.** Doz. **$3.60**



DRY MASH HOPPERS

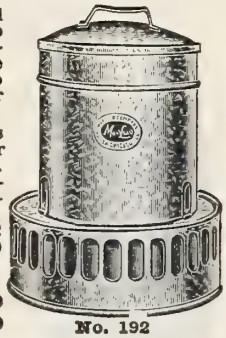


No. 35—Width 8½ in. **$1.00**
Packed 6 to case.
No. 36—Width 12 in. **$1.50**
Packed 4 to case.
No. 13—Width 18 in. **$1.75**
Packed 4 to case.
No. 37—Width 24 in. **$2.00**
Packed 2 to case.

MOE'S PEERLESS FEEDER

For chicks and growing fowl. The magazine or hopper is adjustable and can be set to feed slowly or rapidly.

No. 192—Peerless Feeder. Diameter of base 12 inches. 30 feeder holes. Diameter of magazine 9½ inches. Total height 12 inches. Capacity 10 quarts. Shipping weight 6 pounds.
Each **$1.00**
Per doz. **12.00**



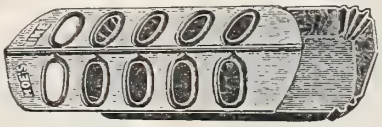
No. 192

No. 193—Peerless Feeder. Diameter of base 12 inches. 30 feeder holes. Diameter of magazine 9½ inches. Total height 18 inches. Capacity 18 quarts. Shipping weight 7 pounds.
Each ..... **$1.25** Per dozen **$15.00**

Moe's Double Feeding Troughs

	Each
No. 58—12 in. Packed 24 to case	$0.25
No. 59—18 in. Packed 12 to case	.30
No. 60—24 in. Packed 12 to case	.35
No. 76—36 in. Packed 12 to case	.50
No. 21—12 in., single row, 24 to case	.25
No. 22—18 in., single row, 12 to case	.35
No. 23—24 in., single row, 12 to case	.45
No. 55—12 in., single row, 24 to case	.20
No. 56—18 in., single row, 24 to case	.30
No. 57—25 in., single row	.35

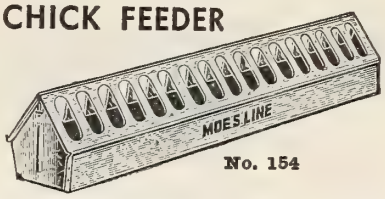
Moe's Eclipse Feeding Troughs



No. 27—10 in., Galvanized ..... **$.15**
Packed 24 to case.

No. 28—20 in., Galvanized ..... **.25**
Packed 12 to case.

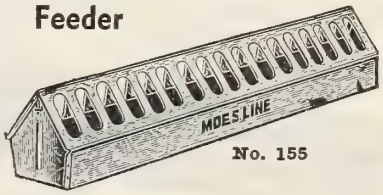
MOE'S INTERMEDIATE CHICK FEEDER



No. 154

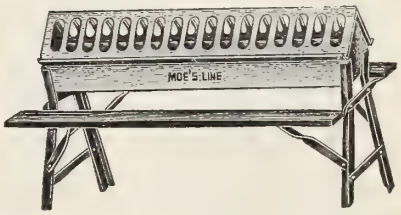
For small pullets, growing fowl and hens. 32 inches long. Holds 12 quarts.
No. 154—Each **$1.00**

Tin Plate Buttermilk Feeder



No. 155

Same as No. 154, but can be used with buttermilk. **Each, $1.25.**

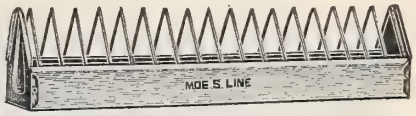


No. 35—Stand for No. 154 and 155 Feeders **$1.50**

MOE'S METAL REEL TOP FEEDERS

No. 465—12 in. $0.25
No. 466—24 in. ..... .45
No. 467—36 in. ..... .60
No. 468—48 in. ..... .80

WIRE GRILL FEEDERS (Rust-proof)

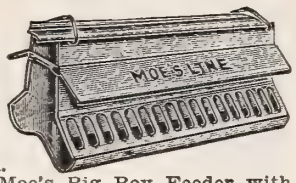


No. 311—36 in. $0.65
No. 312—48 in. ..... .85
H4-2048—Wire grid, growing feeder, 48 inches long $1.00

LEADER REEL TOP FEEDERS

No. 290—24 in. long $0.35
No. 292—36 in. long ..... .45

MOE'S BIG BOY FEEDER



A Feeder especially designed for growing stock—three or four-week-old chicks—and up to full-grown mature fowl.

No. 160—Moe's Big Boy Feeder with sliding cover. Shipping weight 16 lbs. Each **$2.50**

No. 161—Moe's Big Boy Feeder with wide adjustable rain cover. Covers project 5¾ inches on each side. Shipping weight 18 lbs. Each **$3.00**

MOE'S LARGE CAPACITY FEEDER

A wonderful feeder for young growing stock, and a great time and labor saver when chicks are raised in large numbers. Made of heavy galvanized iron in two sizes, both with a large capacity.

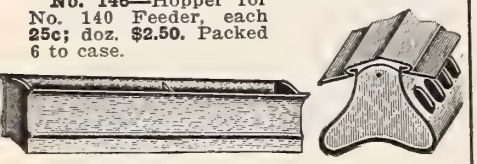
Sliding top cover, easy to fill and clean, and the birds cannot roost on the cover or side to foul the feed.

No. 140—Feeder, capacity 10 quarts, length 21 ins., width 8½ ins., height 7 ins. 16 openings on each side, so that 32 chicks can feed at one time. Each **80c.**

No. 141—Feeder, capacity 17 quarts, length 35 ins., width 8½ ins., height 7 ins. 27 openings on each side, so that 54 chicks can feed at one time. Each **$1.25.**

Extra Hopper for Large Capacity Feeder

No. 146—Hopper for No. 140 Feeder, each **25c;** doz. **$2.50.** Packed 6 to case.



No. 148—Hopper for No. 141 Feeder, each **50c.** Packed 4 to case.

WIDE RAIN COVERS

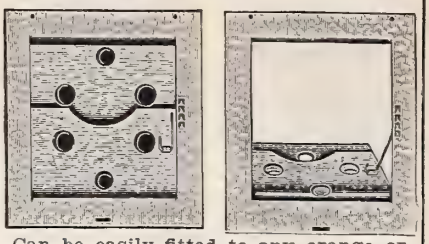
No. 147—for No. 140 Feeder, each **20c;** doz. **$2.40.** Packed 12 to case.

No. 149—for No. 141 Feeder, each **30c;** doz. **$3.60.** Packed 12 to case.

WATER PANS

14 in.....65c
16 in.....75c

MOE'S TRAP NEST FRONTS



Can be easily fitted to any orange or ordinary wood box or coop and gives the breeder the opportunity to use a size nest adaptable to his birds. Dimensions—11 ins. wide by 12 ins. high; 12 to case.

No. 63 Trap Nest Front ..... Each **50c;** dozen, **$6.00.**

GRIT AND SHELL BOXES

No. 45—Two compartments. Packed 12 to case ..... **$ .35**

No. 9—Three compartments. Packed 6 to case ..... **.65**

No. 90—Four compartments. Packed 6 to case ..... **.90**

MOE'S STEEL PAN

Diameter 17 in. Depth 3½ in.

No. 195—Moe's Steel Pan. Each **35c**

WATER GLASS

Put up expressly for packing away eggs during the summer months. Use 1 part Water Glass to 9 parts of water. At a cost of only one cent a dozen, you will be able to have your own eggs.

Price: 1-qt. can..... **$0.30**
1-gal. can **1.00**
5-gal. can **4.00**

CEL-O-GLASS

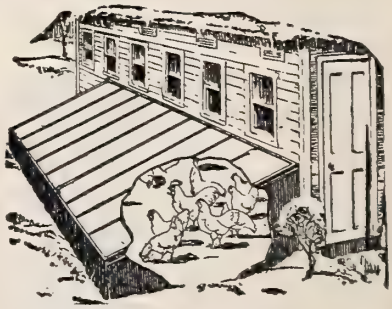
CEL-O-GLASS is made of coarse mesh galvanized wire cloth, treated in such a manner that the spaces between the strands are filled with a clear, translucent, tough, flexible substance that will not rub off, peel, or become brittle.

Price: 3 feet wide, per running foot, **40c**

WINDOW FABRIC

SUBSTITUTE FOR GLASS

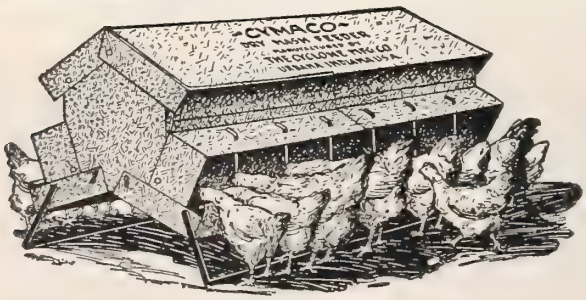
Transmits Violet Rays



Much Cheaper Than Glass

is a strong fabric treated by a patented process to make it transparent and waterproof. It admits abundant light. The popularity of GLASS CLOTH has been sensational.

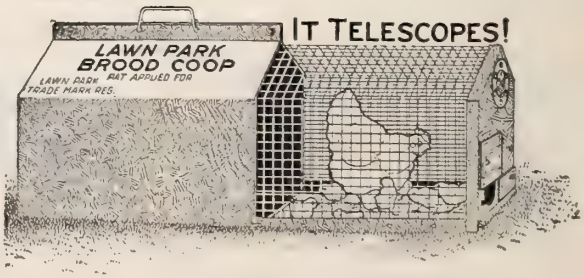
1 yard	**$0.30**
5 yards	**1.25**
10 yards	**2.50**
50 yards	**12.50**
100 yards	**25.00**



"CYMACO" DRY MASH FEEDERS

The CYMACO feeder is made of the best galvanized steel with enamelled steel legs to hold the feeder off the ground. The flow of the feed may be regulated by means of two thumb screws at either end of the feeder. Agitators are worked automatically by the fowls while feeding. The CYMACO accommodates twice as many hens as the ordinary hopper feeder. CYMACO is provided with a catch tray which prevents waste of feed and provides a means to close at night.

No. 12, capacity ½ bu., shipping weight 11 lbs., each **$1.25.**



IT TELESCOPES!

THE LAWN PARK COOP

It is made entirely of galvanized material, will not rust and is proof against all chick enemies. The body of coop is made from strong 28 gauge galvanized steel, the wire park is made from heavy ½-inch mesh galvanized wire screen. The Lawn Park is large and roomy, being 18 inches wide, 19½ inches high, and 24 inches long, with park closed; and 48 inches long with park extended.

No. 50, price, each ..... **$3.00;** 6 for **$16.80**
No. 40, Coop without Park, price, each ..... **$1.60;** 6 for **$9.00**

Pratts, BUTTERMILK BABY CHICK FOOD

is appetizing, harmless, wholesome, non-stimulating, highly digestible, clean, low in moisture, high in quality, always uniform and complete in every element needed for bone, muscle, feathers and health. Pkgs. **25c** and **50c.**

MONEY CAN BUY NO BETTER

100 lb. bags, 50 lb. bags, 25 lb. bags, 10 lb. bags, 5 lb. bags.

Write for Prices

PRATTS BUTTERMILK GROWING MASH

It produces more pounds of weight on less food. So skillfully and thoroughly processed that all dust, hulls, or other foreign particles are removed. Every ounce is solid food that will build muscle, bone, nerve, feathers, and health. 100 lb. bags.

DIGESTIBLE APPETIZING ECONOMICAL

Write for Prices

PRATTS BUTTERMILK LAYING MASH

This remarkable mash is the standard by which all others are judged. Not alone theoretically right but proven by practical test to be the greatest "egg producer" ever made. There is a good reason for every ingredient in this splendid mash.

Pratts Buttermilk Laying Mash produces more eggs at less cost per dozen and gives greatest profits.

Victory and Supreme, 100 lb. bags. **Write for Prices**

PRATTS INTERMEDIATE SCRATCH OR DEVELOPING FEED

Never in your life have you seen such a splendid scratch feed. Clean cut, uniform in size, attractive in variety and appearance, free from every particle of dust, hulls, chaff, weed seeds, or foreign materials, perfectly milled and mixed. Pratts Intermediate Scratch Feed is the delight of the chickens.

Victory, 100-lb. bags. **Write for Prices**

PRATTS LARGE SCRATCH FEED

Gives such splendid results. Made only of the best of plump, sweet, well-seasoned grains—it is the very acme of quality and gives the maximum of results.

EVERY SINGLE GRAIN OF PRATTS IS REAL FOOD

Victory and Utility, 100 lb. bags.

Write for Prices

PRATTS CHICK SCRATCH FEED

Pronounced by authorities everywhere to be the finest, cleanest, purest, most economical and highest quality chick scratch ever offered to the public.

BRAINS CAN THINK OF NO BETTER, WE CAN MAKE NO BETTER, YOU CAN BUY NO BETTER, CHICKS CAN WANT NO BETTER.

Every ingredient is of the highest quality, carefully cracked and processed and repeatedly cleaned to free it of all dust, hulls, flour or other useless or wasteful parts. Contains no large pieces that might choke the chicks.

Victory, 100 lb. bags.

Write for Prices

PRATTS RABBIT PELLETS

One of the best foods for rabbits—it is pelleted and used in connection with Alfalfa Hay. **Write for Prices**

PRATTS CALF MEAL (For Calves)

Pratts Calf Meal is a safe and economical feed. It takes a little over 160 pounds to raise a calf to four months of age. It contains properly balanced proportions of nutriments, which consist of highest quality proteins, vitamins and minerals, for health and bone foundations.

Protein	24.00%
Fat	4.00%
Fibre	6.00%
Carbohydrate	55.00%
Nitrogen free extract	44.00%

PRICES—25-lb. bag, $1.15; 50-lb. bag, $2.15; 100-lb. bag, $4.20.

BLATCHFORD'S CALF MEAL, DOUBLED FARM PROFITS

Maturing or vealing all your calves rapidly on **Blatchford's Calf Meal,** at a cost of about one-fifth of what you get for your milk, then selling all the milk at a good profit, should appeal to you and to every wide-awake farmer as a good, profitable proposition. These profits both ways, need not be guessed at; they are discernible at a glance. Another source of profit that heretofore has been overlooked by most farmers is the raising of the fall and winter calf on this same milk-substitute. Many farmers and dairymen have taken up winter dairying, reaping the extra big profits on milk and cream during the winter months, but often the calf has been immediately "murdered." Calves raised during the winter give you veal during the term of high prices and are just as easily raised then as during the summer. Fall "freshening" is greatly to be desired. With the help of the silo or an abundance of alfalfa hay the winter feeding keeps up the milk supply until the new grass comes in the spring. The new pastures stimulate the milk-flow and keep it up through the summer. The winter milk prices more than offset the cost. When you stop to consider that this complete milk substitute costs you less than skim milk and is far better for calf-raising—made expressly for the calf—you will get some idea of its high efficiency. It is made from the several kinds of whole grains and seeds, and includes oil, sugar and albuminous compounds, pure locust-bean meal and pure flaxseed ground, with the oil left in. You cannot begin to get the results from any other method of calf-raising that you can get from feeding **Blatchford's Calf Meal, the complete milk equal. PRICES:** 25-lb. bag, **$1.35;** 50-lb. bag, **$2.20;** 100-lb. bag, **$4.35.**

BABY CHICKS

Bred to lay from big, healthy stock. We start shipping about March 1st, and will continue until June 1st.

We will commence booking orders in January for future shipment, so, send in your order early to get prompt service.

Owing to the perishable nature of Baby Chicks, we ask orders to be accompanied with cash or money-order.

Prices for January subject to change without notice, in the following strains, only:

Variety	50	100
S. C. WHITE LEGHORNS	**$5.50**	**$9.00**
BARRED ROCKS	**6.00**	**10.00**
WHITE ROCKS	**6.00**	**10.00**
S. C. RHODE ISLAND REDS	**6.00**	**10.00**
WHITE WYANDOTTES	**6.00**	**10.00**
BUFF ORPINGTONS	**6.00**	**10.00**
WHITE GIANTS	**7.00**	**12.00**
SUPREME QUALITY		
WHITE LEGHORNS	**6.00**	**10.00**

APRIL and MAY prices **$1.00 per 100 less than above**

All prices prepaid by parcel post and subject to change without notice.

All orders for Baby Chicks, subject to our confirmation. Kindly send cash or money-order with your orders.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

PRATTS POULTRY, HORSE AND CATTLE REMEDIES

PRATTS ANIMAL REGULATOR

Intelligent, humane and prudent owners of horses, cows and other livestock realize the value of good tonics, regulators and remedies. For nearly half a century Pratts has been adding to its successful record.

Packages: 25c, 50c, $1.00
25-lb. pails $2.75
100-lb. drums 9.50

Keep your cows thrifty while forcing milk production, without increased cost for feeding or care by giving them

PRATTS COW TONIC

Promotes healthy appetite, good digestion, increased vigor, greater milk production. A wonderful all-around tonic. **50c.**

PRATTS RED MITE SPECIAL

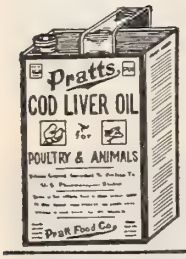
An effective liquid for exterminating the blood-sucking mites. To be sprayed or painted on roosts, dropping boards, nests, and other places where mites hide. Use these preparations regularly.

PRATTS RED MITE SPECIAL
1 qt., 60c.; ½ gal., $1.00; 1 gal., $1.60.

PRATTS DIP AND DISINFECTANT

Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and **liquid lice killer.** Use it in Roup, Colds and other contagious diseases.

¼ gallon ..... $ .50
½ gallon ..... .85
1 gallon 1.45



PRATTS COD LIVER OIL

Vitamin Tested for Poultry and Stock.
1 gallon..... $1.75
5 gallon..... 8.50
30 gallon..... 40.00

PRATT'S ROOST PAINT

CONTAINS NICOTINE COMPOUNDS KILLS LICE AND MITES

Just paint it on the roost. If the roost is dusty or dirty, clean it off.

If the roost has been whitewashed scrape it off and apply Pratt's Roost Paint directly to the top of the roost.

Several applications may be necessary as many lice eggs may hatch out after the first treatment.

You will find this treatment very effective and satisfaction is assured.

PRICES
½ Pt. Can ..... $.75 1 Pt. Can $1.25

HEALTHY HENS AND LOTS OF EGGS

You may expect vigorous, laying, paying birds when you give them

PRATTS POULTRY REGULATOR

daily. It contains just those elements needed to keep poultry in perfect health. Both a tonic and digestive. Prevents common poultry ailments. Produces growth, gives increased vitality, and hastens maturity. Makes pullets early and constant layers.

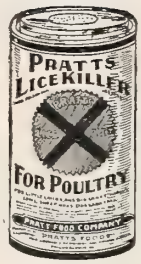
Packages: 25c. and 50c.

12-lb. Pkg., **$1.50**; 25-lb. Pail, **$2.75**; 100-lb. Drums, **$9.50.**

PRATTS POULTRY WORM POWDER

Worms in poultry are one of the greatest menaces to the poultry raiser. There are a number of kinds of worms that infest poultry, sapping their vitality, reducing their egg-laying capacity. Pratts Worm Powder will greatly aid your flock and put them on a laying, paying basis.

PACKAGES
100 Hen Size ..... $ .60
500 Hen Size 2.00
1,000 Hen Size 3.50



PRATTS POWDER LICE KILLER

25c. and 50c.

Effective, non-poisonous, non-irritating. May be used wherever a powder is suitable. A splendid deodorizer. Will kill lice on horses, cattle, dogs or cats.

PRATTS GAPE COMPOUND

PRATTS GAPE COMPOUND is an effective guaranteed treatment. For external administration — safe, sure, and gives quick relief.

Packages: 50c.

PRATTS CHICK TABLETS

(Formerly called "Pratts White Diarrhea Remedy")

It is only necessary to give this remedy in the drinking water from the first drink. This remedy has saved many dollars worth of chicks to poultry raisers. You can depend on it.

25c. and 50c.

FLY SPRAY

Knox Out Spray is a product of the General Laboratories, Inc., makers of B. K. It is of the highest grade and very effective.

The 5 - gallon container is an improved Easy Pour Can making it very convenient to use.

1 gal. can..$1.50 5 gal. can..$6.75

PRATTS NEW SPLIT-ACTION CAPSULE

DOES THE WORK OF TWO ORDINARY WORM TREATMENTS. A special process (patent applied for) now enables you to obtain a poultry worm capsule in which the KAMALA AND THE NICOTINE ACT SEPARATELY SEVERAL HOURS APART. The medicines do not interfere with each other . . . their action is split. Just like two worm treatments, in one capsule. This is the new way to get most satisfactory results . . . and with least disturbance to the fowls.

"Split-Action" Means Satisfaction!

Another very important point is that this separated "Split-Action" is easier on the treated fowls. Instead of getting a heavy dose of both kamala and nicotine into the intestines at the same time, the medicines are delivered separately several hours apart.

Adult Size
50 Tablet Pkg. ..... $ .85
100 Tablet Pkg. 1.50
500 Tablet Pkg. 5.50
1,000 Tablet Pkg. 10.00

Chick Size for Birds under 4 lbs.
50 Tablet Pkg. ..... $ .55
100 Tablet Pkg. 1.00
500 Tablet Pkg. 3.75
1,000 Tablet Pkg. 6.50

PRATTS R-P POWDER AND TABLETS

Tablets or Powder: 25c., 50c.

Contains remedies which are quickly absorbed, purify the blood and reduce fever. Pills are convenient for individual treatment. Many poultrymen use this remedy the year round as an effective preventive.

OLD HICKORY SMOKED SALT

Old Hickory Smoked Salt improves keeping qualities because the smoke on the salt is available when its preservative help is most needed and best utilized. The smoke permeates the meat while the other curing ingredients are being absorbed — resulting in perfect blending of all the flavors throughout every tissue and developing uniformly throughout the meats that delicious, genuine hickory wood flavor everybody likes.

Package, about 10 pounds..... $1.00

DR. HESS POULTRY PAN-A-MIN

It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions. The improved product has been given a new name. Pan-a-Min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth, and in maintaining health. It does not take the place of feed and no feed can take the place of Pan-a-Min. The cost is less than a penny per hen per month.

1½-lb. pkg., 25c; 3-lb. pkg., 45c; 7-lb. pkg., 85c; 15-lb. pkg., $1.75; 25-lb. pkg., $2.50; 100-lb. pkg., $8.50.

DR. HESS POULTRY WORM TABLETS

Dr. Hess Worm Tablets are odorless, tasteless and non-toxic to poultry. The nicotine in the tablet is combined in such a manner that it is not released in the mouth, throat, crop or gizzard, but it is released, full strength in the intestine where the large round worm lives. Expulsion of the worms start in a few hours and is usually completed in 24 to 36 hours.

40 Tablet Package	$0.50
100 Tablet Package	1.00
250 Tablet Package	2.00
500 Tablet Package	3.50
1,000 Tablet Package	6.50

DR. HESS POULTRY WORM POWDER

Dr. Hess Worm Powder is convenient to use where you desire to mix it with the feed, and contains the same active ingredients that is in the Tablets.

2 oz., 50 Bird Size	$0.50
4 oz., 100 Bird Size	.90
10 oz., 250 Bird Size	1.90
1¼ lb., 500 Bird Size	3.00
2½ lb., 1,000 Bird Size	5.40

DR. HESS CHICK TABLETS

(Formerly White Diarrhea Tablets)

Most diarrhea conditions in chicks often mistaken for bacillary white diarrhea, are results of improper feeding or brooding, and can be corrected by Dr. Hess Chick Tablets. These tablets are a bowel stringent to be given in drinking water. Once the tablets are in solution, they remain so indefinitely. Packages.....**50c** and **$1.00**

DR. HESS POULTRY TABLETS

(Formerly Roup Tablets)

While there is no absolute cure for roup, Dr. Hess Poultry Tablets are of high value in treating locally the swellings incident to the disease. The tablets are used as a local antiseptic and to medicate the drinking water. Thus used they aid in preventing spread of the disease. Pkgs., 25c, 50c and $1.00.

SAL-VET

SAL-VET is a medicated salt—a safe, simple, inexpensive remedy which gives stock the medicines they need along with the **Salt** they crave. It requires no dosing, no drenching, no starving. It goes into the stomach and intestines and loosens the leach-like hold these blood-sucking parasites have on the tender linings. It drives the robbers out—without bother or trouble to you. Your animals eat SAL-VET in place of common salt and thus **doctor themselves.**

A SINGLE WORM-INFESTED HOG IN YOUR HERD IS A CONTINUAL MENACE TO YOUR HOG PROFITS

It is the worm-infested, half-starved animals that spread the deadly **worm-curse** over your farm. They are **disease-breeders** and **disease-carriers** of the worst kind. Helpless themselves to resist contagion, they let down the bars to the cholera scourge and death stalks through your herd. They are the **danger spots** in every herd.

10-lb. packages "Sal-Vet"	at	$ 1.00 each
25-lb. packages "Sal-Vet"	at	2.25 each
100-lb. kegs "Sal-Vet"	at	6.75 each
200-lb. barrels "Sal-Vet"	at	12.00 each

BLACKMAN'S SALT BRICKS

Easiest and best way to give medicine to stock. It salts them too.

Blackman's Medicated Salt Brick, originated by a noted Veterinary Surgeon, insures stock getting the needed medicine without trouble or loss of time to their owners. When dropped in the feed-box, the brick is licked by the animal as needed, just as people use salt with their meals. Contains Copperas for Worms, Sulphur for the Blood, Saltpetre for the Kidneys, Nux Vomica, a blood tonic, and Pure Dairy Salt. It is a wonderful improvement over the old plan. **Why not try it?**

EACH.....**$0.25** **DOZEN**.....**$3.00**

DR. HESS STOCK TONIC

This product has been serving the dairy interests of this country for upwards of thirty-five years. A summary of many improved tests covering three whole years shows that cows receiving Dr. Hess Stock Tonic produce on the average 54% more profit than cows not getting the Tonic. The Tonic has been recently improved in keeping with latest scientific discoveries and feeding practices. **All the minerals proved necessary to the heavy producing dairy cow have been added. Pkg., 25c, 45c; 5-lb. Pkg., 65c; 15-lb. Pkg., $1.75; 25-lb. Pkg., $2.50; 100-lb. Pkg., $8.50.**

DR. HESS HOG SPECIAL

A conditioner and mineral supplement for hogs only. Dr. Hess Hog Special is an appetizer, laxative and diuretic—also a perfectly balanced mineral supplement. It supplies in all—sufficient quantities every mineral necessary for the hog's growth and thrift. Hog Special makes possible common sense worm control. It is given in the feed. No fasting or individual dosing is necessary. It greatly retards worm reinfestation. The cost of using Hog Special is only **12½c per hog per month. Pkg., 45c; 15-lb. Pkg., $1.75; 25-lb. Pkg., $2.50; 100-lb. Pkg., $8.50.**

DR. HESS ANTISEPTIC POWDER

A ready help in emergencies—deserves a place on every stable shelf. For treatment of wire-cuts, scratches, galls and wounds. Quickly forms coating over wound and starts healing. Packages.....**4 oz., 25c; 10 oz., 50c**

INSTANT LOUSE KILLER

Kills Lice on Poultry, Horses, Cattle, Sheep Ticks, Bugs on Cucumber, Squash and Melon Vines; Cabbage Worms, Slugs on Rose Bushes, etc. Sold in sifting-top cans—look for the word **"Instant"** before buying. Price: 1 lb. **25c.;** 2½ lbs. **50c.** GUARANTEED

Dr. Hess Dip and Disinfectant

One Gallon of Dip makes from 70 to 100 gallons effective solution. Spray it on roosts. Sprinkle it over the runs and in all cracks and crevices. Makes a splendid dip for hogs and sheep. It's a sure parasite and disease germ destroyer. Purifies stables, troughs, sinks, drains. 1 qt., **50c;** ½ gal., **85c;** 1 gal., **$1.45;** 5-gal. can, **$6.50;** 50-gal. drum, per gal., **$1.00.**

BOURBON REMEDIES

Bourbon Poultry Remedy—A few drops in fowls' drinking water cures and prevents white diarrhoea, cholera and other chick diseases. Use daily to keep your chicks healthy. Don't wait until disease strikes. Get it today.

Bourbon Poultry Remedy, trial bot.	$ .60
Bourbon Poultry Remedy, ½ pt. bot.	1.00
Bourbon Poultry Remedy, pt. bottle	1.50
Bourbon Poultry Remedy, qt. bottle	2.25
Bourbon Poultry Remedy, ½ gal.	3.50
Bourbon Poultry Remedy, gal. size	6.00
Bourbon Hog Remedy, quart size	2.25
Bourbon Hog Remedy, ½ gal. size	3.50
Bourbon Hog Remedy, gal. size	6.00

SODIUM FLUORIDE

Sodium Fluoride for lice is the method recommended and endorsed by the United States Department of Agriculture, by Purdue University and most other leading agricultural colleges and experiment stations everywhere.

½-pound box, with sifter top	35c.
1-pound box, with sifter top	60c.

GROUP-OVER

A wonderful, new, prompt and positive treatment for **Roup, Canker** and **Colds** in **Poultry.**

Roup works fast. It usually begins with a cold; after that the disease progresses rapidly. Roup is one of the most serious of poultry diseases. Stop it quickly with **Group-Over.**

Large Bottle.....**$0.50** Extra Large Bottle.....**$1.00**

BY USING

KOW-KARE

THE GREAT COW MEDICINE

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KARE.** Carefully follow the directions as given on the box, and that cow will get well.

KOW-KARE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases the milk. It is a medicine for cows only. **Prices, small size, 65c.; large size, $1.25.**

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **Bag Balm.** It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **Bag Balm** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequaled success, and is found on the most progressive farms in the country. **Price** .....60c.

AMERICAN HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble. A few doses will send a dull, listless horse on its way rejoicing. **Large size**.....65c.

BONE MEAL FOR POULTRY

This is exactly the same as the Cracked Bone described below, only it is ground much finer. **5 lbs. 25c, 10 lbs. 40c, 50 lbs. $1.50, 100 lbs. $2.85.**

CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. We carry two sizes—No. 1 for grown fowls, and 2 for young chicks. **5 lbs. 25c, 10 lbs. 40c, 50 lbs. $1.50, 100-lb. sack $2.85.**

CRUSHED OYSTER SHELLS

It aids digstion as well as supplying lime. No. 3 for young chicks. **5 lbs. 10c, 100 lbs. 80c, 500 lbs. $3.50. Special prices in larger quantities.**

POULTRY GRIT

5 lbs. 10c, 100-lb. sacks 80c, 500 lbs. $3.50.
(Poultry, Pigeon and Chick Sizes.)

FINE, MEDIUM AND COARSE CHARCOAL

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. **5 lbs., 25c, 10 lbs. 40c, 25 lbs. $1.00, 50-lb. sack $1.75, 100 lbs. $2.75.**

G. & T. CO.'S HIGH GRADE PURE MEAT SCRAP OR MEAT MEAL

50 per cent Protein

This Meat Scrap is the highest possible grade, and is made from Pure Meat trimmings and cracklings. It is fully guaranteed as to quality and will keep indefinitely.

Price: 5 lbs.....25c **100-lb. bags**.....$2.50

FOR PREVENTION • FOR CURE

AVICOL

TRADE MARK

White Diarrhoea and Chicken Cholera can be cured and prevented by **AVICOL.**

STOP THE LOSSES!

AVICOL SAVES THE CHICKS—Avicol has a specific and selective action on the germs causing Cholera and White Diarrhoea. **It knocks the germs and gives the chick a chance.**

Prices.....**50c. and $1.00**

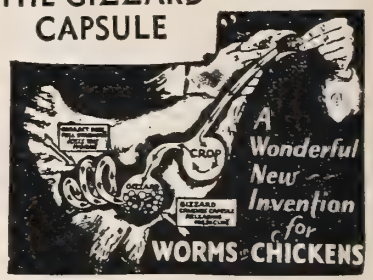
Science has solved another important problem, one that enables poultrymen to make more money. Disease problems that for years have baffled government investigators and experienced poultrymen need no longer alarm you. Bloody diarrhea in chicks has been stopped. Terrific losses in pullets and old hens from coccidiosis, worms, and other diseases have been arrested.

It works like magic . . . this new method of disease control is so simple. It only takes five or ten minutes a week to prevent coccidiosis in a big brooding house.

1 Gal., $1.50; 30 Gal. $1.30 Gal.; 50 Gal. $1.20 Gal.

THE GIZZARD CAPSULE

ADULT OR HEN SIZE	
50 Capsules	$0.75
100 Capsules	1.35
250 Capsules	3.00
PULLET SIZE	
50 Capsules	$0.50
100 Capsules	1.00
250 Capsules	2.50
CHICK SIZE	
50 Capsules	$0.40
100 Capsules	.75
250 Capsules	1.75



The GIZZARD CAPSULE will quickly rid your chickens of both tape worms and round worms. Five times as effective as worm remedies given in food or drink. Why? The GIZZARD CAPSULE is insoluble and carries the medicines intact to the gizzard where it is taken like a grain of corn, releasing the medicines into the worm infested intestines in full strength and undiluted.

As easy to administer as giving a pill. Suitable for chicks at 10 weeks (2 lbs.) to full grown. Don't feed worms. Stop this waste and increase your profits. Give GIZZARD CAPSULES now. Satisfaction guaranteed or money refunded.

DON SUNG

TABLETS FOR EGG LAYING

Scientifically compounded to make a balanced tonic and regulator for hens and to stimulate egg laying. A concentrated medicine—no filler.

Price 50 cents and $1.00 Packages

POULTRY LITTER

Used with great success by leading poultrymen instead of straw and shavings. It absorbs all moisture, retains the ammonia and keeps dampness down in the laying house. One or two applications a season will give great results.

Price, per bale.....$2.50

BLACK LEAF WORM POWDER

An odorless, tasteless, dry compound containing nicotine that remains insoluble in the mouth, throat, crop and gizzard, hence non-toxic to poultry. When given to poultry it mixes with food in the crop and gizzard, yet passes through the digestive tract unchanged until it reaches the intestines where the large round worm infestation occurs. The nicotine is released immediately, and dead round worms begin to be expelled a few hours later, continuing for 24 to 36 hours.

4 Ounce Package (For 100 Birds)	$0.75
1½ Pound Package (For 600 Birds)	2.90
3 Pound Package (For 1,200 Birds)	5.60

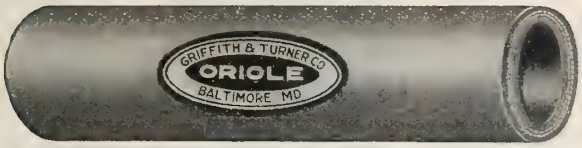
BLACK LEAF WORM PELLETS

They have the same advantage as to lack of odor, taste and toxicity to poultry as Black Leaf Worm Powder. Disintegrates and becomes mixed with food in crop and gizzard—but the nicotine is not released until reaching the intestines, where it kills the round worm.

100 Pellets (For 100 Birds)	$0.80
500 Pellets (For 500 Birds)	3.50
1,000 Pellets (For 1,000 Birds)	6.50

ORIOLE GARDEN HOSE

LONG LASTING—FLEXIBLE—WILL NOT KINK



The rubber used in its construction is a high grade stock that will not rapidly deteriorate with age. The rubber lining or tube is made seamless and ample strength is given the hose by a braided cotton jacket directly applied by a special machine. The hose is protected against external wear by a tough, resilient, rubber cover.

¾ inch, per foot ..... $.12
½ inch, per foot ..... .10

GRITCO GARDEN HOSE

The Kind That Gives Long Service

Gritco has features that recommend it to discriminating purchasers. It will not kink. Drag it around and you cannot separate the cover from the hose, because the rubber is seamless and tough. The wall of the hose is reinforced with strong cords, braided on, which are firmly embedded in the rubber and cannot come loose. This affords great strength for the highest water pressures. Gritco Garden Hose is flexible, strong and long lasting. ¾-inch, per foot ..... $.18

HOSE FOR SPRAY PUMPS

Spray Hose is made especially for spray pumps, being so constructed that spraying solutions have the least possible effect on them.

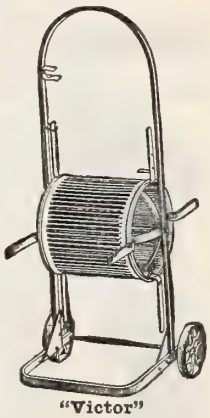
½ inch Power Spray Hose, per foot ..... $.25
½ inch Spray Hose for Hand Pumps ..... .15
⅜ inch Spray Hose for Hand Pumps ..... .15

"VICTOR" HOSE REEL

is constructed with channel steel frame; strong, cast-iron wheels; solid steel reel arms and 9-inch drum of heavy corrugated steel.

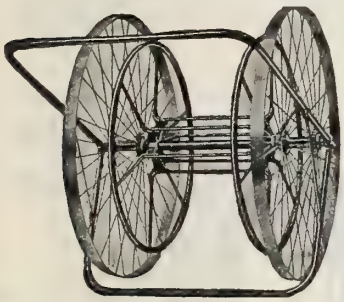
Weight, 12½ lbs. Capacity, 100 feet of ¾-inch rubber hose.

Price **$1.50**



"Victor"

PARK HOSE REEL NO. 21



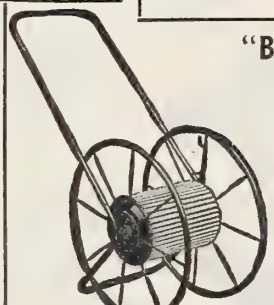
A tubular iron reel and frame mounted on steel wheels, tires 1⅛ inches.

Height of wheels—28 in. Outside width over all—26 in

Shipping weight—45 lbs. Capacity, ¾-in. hose—200 ft. Capacity, 1-in. hose—100 ft.

Price—$15.00

"B" No. 10 HOSE REEL



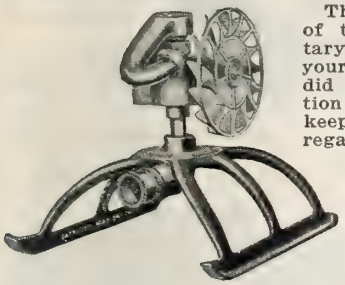
Style "B" No. 10

The weight of the hose is borne upon the rims and is not carried on the handle as in other types.

Absolutely all metal, tubular steel rims and frame; corrugated galvanized drum. Frame and reel enameled green.

Style "B" No. 10—Diam. of rim, 21 inches; weight 15 lbs. capacity, 100 ft. of ¾ inch rubber hose. **Price** **$4.00**

DOUBLE ROTARY LAWN SPRINKLER



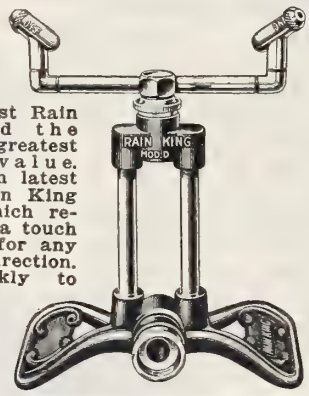
The gentle shower of the Double Rotary Sprinkler puts your course in splendid playing condition earlier . . . then keeps it that way regardless of dry weather! Does not wash or pack newly-planted grass seed. Distributes water with sufficient force to penetrate to roots of grass, yet does not injure tenderest turf.

No surface or sub-surface puddling. Covers circular area up to 80 feet (more than 5,000 sq. ft.) or down to 15 ft. in diameter, according to pressure. A big water saver! Scientifically constructed of finest materials. King of its kind for 14 years!

DOUBLE ROTARY SPRINKLER, $12.50

DOUBLE ROTARY JR. SPRINKLER $7.50

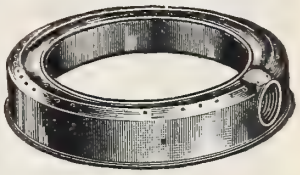
Model D Rain King



The latest Rain King and the world's greatest sprinkler value. Fitted with latest patent Rain King nozzles which require just a touch to adjust for any spray or direction. Sets quickly to turn fast or slow—or for stationary Sprinkling.

Price $2.00

RING SPRINKLER



Easily moved over the lawn without turning off the water. "Thing of beauty."

Extra Heavy ..... **75c.**

HOSE NOZZLE

Brass Adjustable, 60c.

THE FOUNTAIN SHOWER

A Hose Nozzle with the "Mist-like Spray"

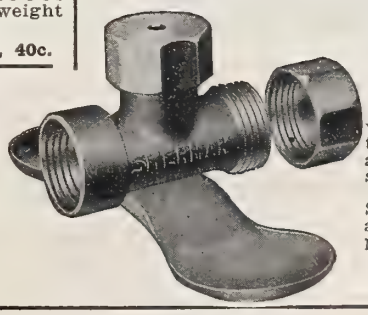
This shower Sprinkler is the best thing for attaching to the hose to be used like a watering pot. It gives a fine gentle shower and does not injure the plants as a heavy stream might do. Parcel post weight 1 lb.

Price, 40c.

WATER FAN SPRINKLER

The Waterfan embodies every worthwhile feature of lawn and garden irrigation. Fine gentle sprays, even rain-like distribution, wide coverage, dependability and durability. **Price, $15.00**

SHERMAN PORTABLE SPRAY HEAD



For connecting with hose in series to create a movable and flexible lawn system.

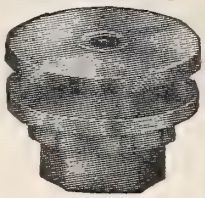
The most effective Spray Head made, and at the lowest price.

Price, each **75c**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

MISTY JR. NOZZLE

THE BEST NOZZLE YET



This nozzle has been tested under all conditions, and found to give entire satisfaction. It produces a perfect mist and covers a wide area.

Brass, with extra steel disk....**$1.00**

Can also supply these nozzles with 45-degree angle. Same prices as above.

Extra Steel Disks for Misty, Jr., Nozzle **5c**

LONG SHANK HOSE COUPLING

Fig. 67 — Brass coupling, has one end cut ¼-inch gas pipe and other end shank to wire into hose. Made from solid brass. **Price,** each..**35c**

45° BEND BRASS Y

Fig. 1584 — Brass Y with the two branches of the Y bent as shown.

Price **50c**

Fig. 1074½ — Brass Y straight. **Price** **50c**

60° BRASS ELBOW

Fig. 1107 — Sixty degree brass elbow, threaded both ends ¼-inch pipe for use with any nozzle.

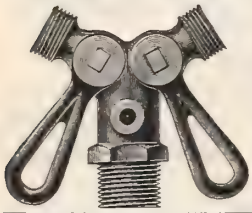
Price **30c**

PRESSURE REGULATING VALVE

Designed for controlling the pressure on Power Spray Pumps. Can be set to operate against any pressure up to 400 pounds.

Myers Pressure Regulating Valve for ¾-inch pipe, **Fig. 2138** price _____ **$8.00**

MYERS DOUBLE CUT-OFF

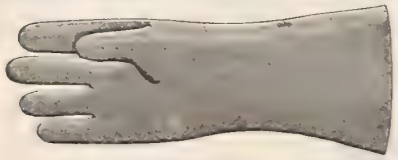


Is fitted for ¾ or ½ inch hose couplings on the discharge ends, and 1 inch pipe thread on the inlet.

Price ____ **$3.25**

RUBBER GLOVES

Extra Heavy, All-Rubber Seamless Gloves. Price ____ **$3.00**



VERMOREL NOZZLE

This is an improvement on the old style Vermorel Nozzle; spray is finer and more evenly distributed. The cap with smaller hole makes finer spray.

Fig. 55—Gould's Vermorel Nozzle, each, One Discharge.....**$1.25**

LEVER SHUT-OFF COCK

Fig. 64 — Lever Shut-off Cock, all brass. Made for use with Pipe Extension. Requires quarter turn only to shut off complete. This quick action makes it a practical device for the purpose. Tapped ¼-inch pipe size.

Price, each....**$1.00**

REDUCING COUPLING

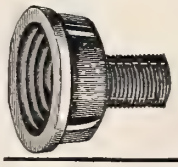


Fig. 65 — Coupling small end cut ¼-inch pipe thread to fit our spray nozzles; large end cut to fit ⅜-inch, ½-inch or ¾-inch male hose coupling.

Price **30c**

Fig. 49½

BRASS Y

Brass Y is cut ¾-inch. Female Hose inlet, with lateral discharges to fit ½ and ¾ inch Hose Couplings. **Price**....**75c**

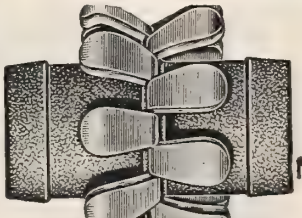
PRESSURE GAUGE

Fig. 1721

Up to 400 pounds pressure.

Price, 3½-inch____**$3.00**

GIBBS HOSE MENDER



The convenience of this mender lies in its simple application. Simply cut the hose apart where a leak occurs, insert the tube and hammer down the steel fingers.

Price, each, ¾-inch.....**$0.10**

Dozen, ¾-inch **1.15**

BORDEAUX NOZZLE

The Bordeaux Nozzle can be readily changed from a solid stream to a mist-like, fan-shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by turning the handle.

Price **$1.00**

HOSE COUPLING

Fig. 1284

BRASS HOSE COUPLINGS, FIG. 1284

Fig. 1284 is a special Brass Hose Coupling, made with double length nipples, with heavy ribs, of sufficient length to use two hose bands if necessary. Especially adapted for use with Power Spray Pumps. Made in ½-in. size.

Price, each **60c**

SHERMAN'S BRASS HOSE CLAMPS

Fig. 1272, each, ½-in. **5c**

Brass Hose, ¾-in. ____**5c**

Clamps, 1-in. ____**15c**

Fig. 504

HOSE COUPLING

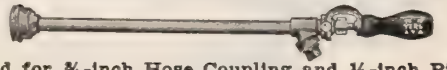
Size, inches	½	¾	1	1½
Complete	20c	20c	35c	
Female Half	15c	15c	25c	

COOPER HOSE MENDER

No clamps necessary. Impossible to pull out of hose. Each **10c,** dozen **$1.00**

THE MYERS POWER SPRAY GUN

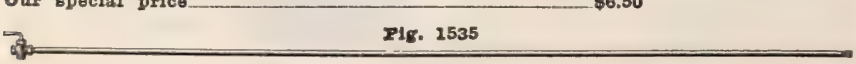
Length overall 26 inhes. Utilizes the entire capacity of any power spray pump and does away with all bamboo extensions, nozzles and fittings. **Fig. 2771.**



Fitted for ¾-inch Hose Coupling and ¼-inch Pipe.

Our special price_____**$6.50**

Fig. 1535



EXTENSION SPRAY-RODS

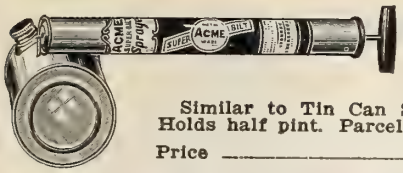
Fig. 1536

Bamboo—8 ft. with stop cock, **$4.20**; without stop cock__**$3.25**

10 ft. with stop cock, **$4.75**; without stop cock_____ **3.75**

Fig. 480—8 ft. extension, with couplings _____**$0.65**

Fig. 1535—8-ft. pipe extension, with stop cock_____ **1.65**



MIDGET TIN HOUSE SPRAYER

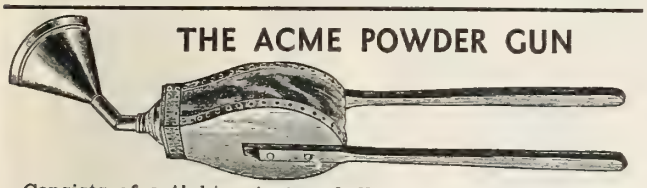
Similar to Tin Can Sprayer, only smaller. Holds half pint. Parcel post weight, 1 pound.

Price $0.30

GRITCO TIN CAN SPRAYER

For spraying insecticides, disinfectants, etc. Capacity, one quart. Parcel post weight, 2 pounds. Our special price $0.45

THE ACME POWDER GUN



Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray and an elbow for placing the spray on the underside of the leaves. Parcel post weight, 2 pounds. Special price, $1.75

No. 26-BG

AUTO SPRAY No. 26-BG

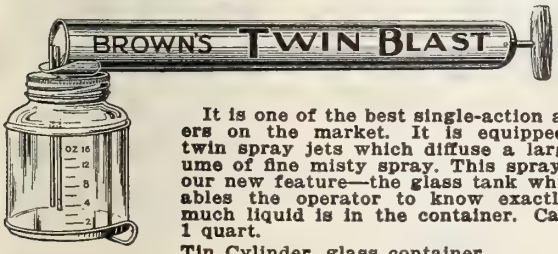
The glass tank enables the operator to know exactly how much liquid is in the container and it is more easily cleaned when a number of different solutions are to be sprayed. Capacity, 1 quart. Price, $1.15

AUTO SPRAY No. 26

No. 26

No. 26-A—All Tin
No. 26-B—Tin Pump, Brass Reservoir

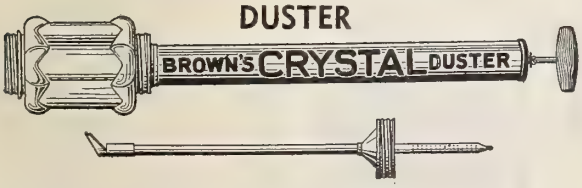
We recommend this Sprayer to our patrons for use in the household, garden, and greenhouse. It is used for spraying insecticides, disinfectants, and cattle fly spray.
No. 26-A, Tin Cylinder, tin container $0.75
No. 26-B, Tin Cylinder, brass container 1.40



It is one of the best single-action atomizers on the market. It is equipped with twin spray jets which diffuse a large volume of fine misty spray. This sprayer has our new feature—the glass tank which enables the operator to know exactly how much liquid is in the container. Capacity, 1 quart.

Tin Cylinder, glass container $0.65

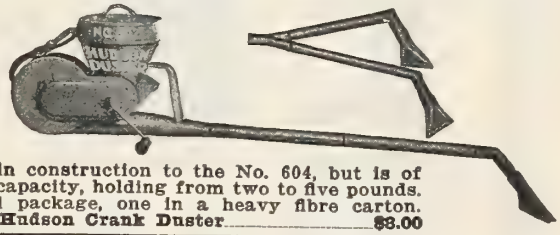
BROWN'S CRYSTAL DUSTER



Brown's Crystal Duster is one of the newest type Dusters on the market. It is equipped with a long extension and adjustable nozzle which enables the operator to dust from underneath without bending. Capacity, 1 quart.
Brown's Crystal Duster $1.25

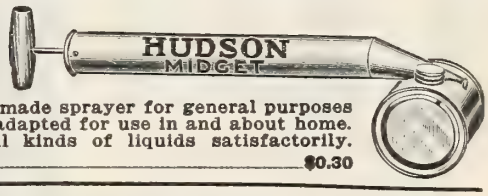
HUDSON CRANK DUSTERS

The **No. 604 Hudson Crank Duster** has two agitators. The oscillating agitator keeps the powder from caking in the hopper. The Rotary Agitator feeds the powder down into the delivery spout. Indicator has an unusual range of adjustment and can be set to feed exactly the amount of powder required. Discharge equipment consists of two nozzles, two elbows, a Wye connection, and four 15-inch tubes. Capacity 5 to 10 pounds, depending on powder used. Weight 22 pounds.
No. 604 Hudson Crank Duster $13.50



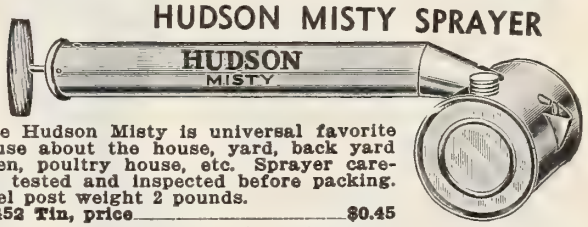
No. 603 Hudson Crank Duster, similar in construction to the No. 604, but is of smaller capacity, holding from two to five pounds. Standard package, one in a heavy fibre carton.
No. 603 Hudson Crank Duster $8.00

HUDSON MIDGET SPRAYER



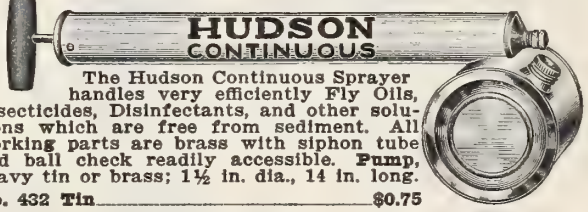
A small well made sprayer for general purposes and especially adapted for use in and about home. Will handle all kinds of liquids satisfactorily.
No. 202, price $0.30

HUDSON MISTY SPRAYER



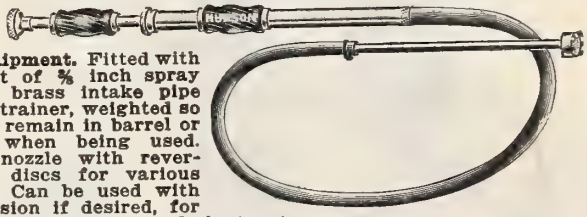
The Hudson Misty is universal favorite for use about the house, yard, back yard garden, poultry house, etc. Sprayer carefully tested and inspected before packing. Parcel post weight 2 pounds.
No. 452 Tin, price $0.45

HUDSON CONTINUOUS SPRAYER



The Hudson Continuous Sprayer handles very efficiently Fly Oils, Insecticides, Disinfectants, and other solutions which are free from sediment. All working parts are brass with siphon tube and ball check readily accessible. **Pump,** heavy tin or brass; 1½ in. dia., 14 in. long.
No. 432 Tin $0.75

HUDSON TROMBONE SPRAYER



Equipment. Fitted with 3 feet of ⅜ inch spray hose, brass intake pipe and strainer, weighted so as to remain in barrel or pail when being used. Fog nozzle with reversible discs for various jobs. Can be used with extension if desired, for reaching under sides of plants, etc.
No. 133 Trombone, price, each $3.90

HUDSON MAJOR DUSTER

Pump. Heavy tin, 2¾ inches diameter, 9 inches long. Filled with special Hudson plunger leather and heavy rod.
No. 665, price $1.25

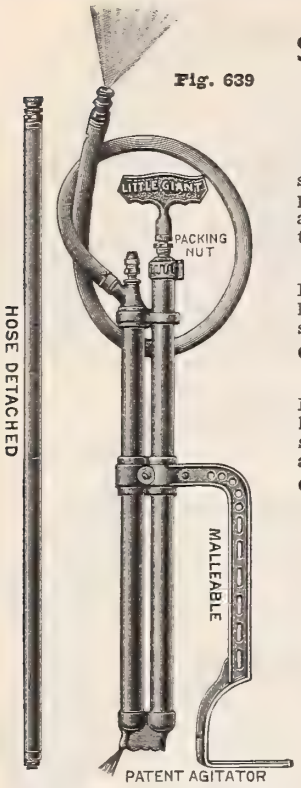


Fig. 639

LITTLE GIANT BRASS SPRAY PUMP AND FIRE EXTINGUISHER WITH AGITATOR

Fig. 639—Spray Pump is constructed entirely of brass. It is provided with a large air chamber and has brass ball valves and detachable hose.

No. 327½—Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle.

Our Special Price **$3.75**

No. 328—Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension.

Our Special Price **$4.40**

BRASS BALL VALVES

LEVER BUCKET SPRAY PUMPS

Fig. 632 represents the Myers Lever Bucket Spray Pump, made of brass and fitted with brass ball valves and patented agitator. The cylinder is 1½ inch in diameter. This pump can be operated with one-half the power of the ordinary bucket spray pump, owing to the advantage of the lever handle.

Fig. 632, No. R324 Lever Bucket Spray Pump, with agitator, complete with hose, Vermorel spray nozzle.

Our Special Price **$6.00**

No. R324A Lever Bucket Spray Pump, with agitator, complete with hose, Vermorel nozzle and eight-foot pipe extension.

Our Special Price **$6.65**

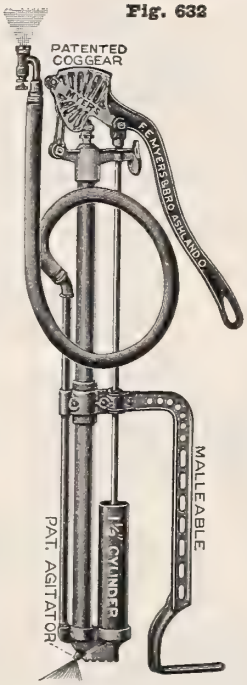


Fig. 632

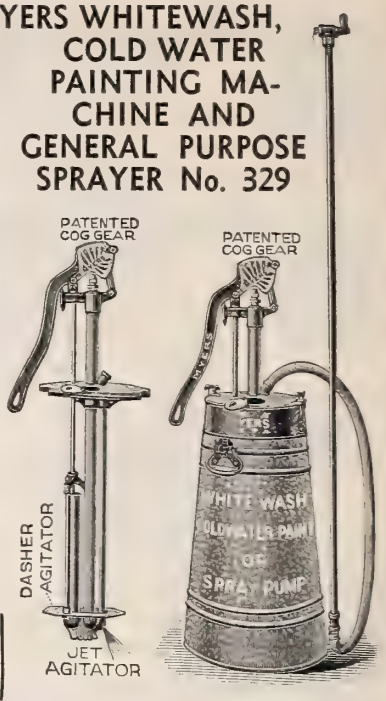
THE MYERS WHITEWASH, COLD WATER PAINTING MACHINE AND GENERAL PURPOSE SPRAYER No. 329

This General Purpose Sprayer with patent Double Agitator is a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable, is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 gallons.

This is an excellent outfit for whitewashing chicken houses, fences and outbuildings. For spraying trees, shrubbery, plants, and in fact anything where a small sprayer can be used. This outfit will be found just the thing.

Complete with Hose, Nozzle, Agitator and Extension Rod.

Our Special Price $12.50



HUDSON MORO SPRAY PUMP

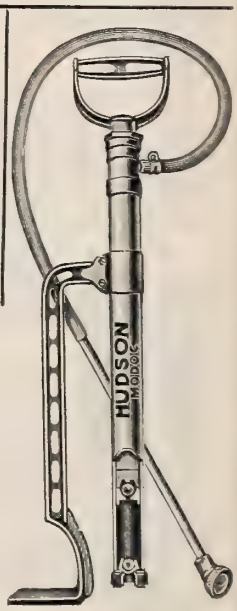
The Hudson Moro Spray Pump handles all spray solutions. Its high pressure adapts it for use in small orchards, vineyards and truck gardens.

No. 126SA Moro, Price **$5.90**

HUDSON MODOC SPRAY PUMP

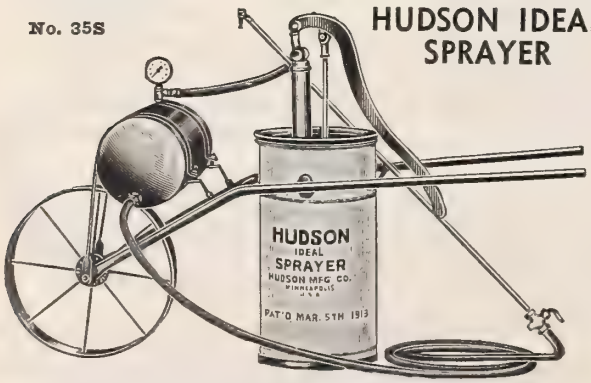
Discharge Equipment. 3 feet of ⅜-inch spray hose, a 12-inch extension and fog nozzle.

Price **$3.25**



No. 35S

HUDSON IDEAL SPRAYER



Tank. Heavy copper-bearing galvanized, reinforced at top and bottom with channel iron hoops. Capacity 18 gallons.

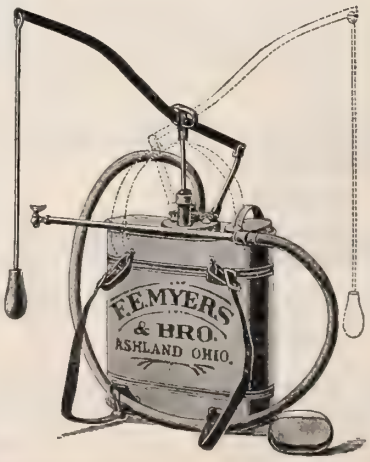
Wheel. 18 inches diameter, 2½-inch tire; strong and rigid.

Discharge Equipment. 6 feet of ⅜-inch spray hose and a 4-foot ¼-inch pipe extension—total 10 feet, angle Ideal spray nozzle and leakless shut-off.

Shipping Weight. Crated securely, 75 pounds.

No. 34S. IDEAL, Galvanized Tank, price, each **$21.00**

No. 35S. IDEAL, Sprayer with Pressure Tank **31.75**



THE LEVER KNAPSACK SPRAY PUMP

Fig. 547—No. 330

Galvanized tank holds 5 gallons, is fitted with lid and strainer. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. Fitted with 5 feet ½ inch hose, pipe extension, and Bordeaux spray nozzle. Our Special price **$12.50**

No. 331 Copper Tank **$18.00**

HUDSON PERFECTION SPRAYER

It is very practical for use around the orchard, barn, or outhouse, on small truck farms; in onion, melon and small potato fields; for removing old wall paper, spraying stock dip, etc.

Tank. 7½ inches diameter, 20 inches high; capacity approximately 4 gallons. All seams are riveted and soldered.

Pump. Seamless brass tubing, 1¾ inches diameter, 15 inches long.

Nozzle. Is especially designed for high pressure work.

No. 110G, Perfection, Galvanized **$6.25**

No. 110B, Perfection, Brass Tank, Price **$9.60**

HUDSON ECONOMY SPRAYER

Tank. 7¼ inches diameter, 20 inches high; capacity approximately 3¾ gallons. Made of first quality galvanized sheet. Sturdily built, with convex ends secured by double folded top and bottom seams, riveted side seams and heavily sweat soldered throughout. Tested under actual working conditions to insure safety in operation.

Price, $5.00

HUDSON JR. SPRAYER

It is particularly adapted for the backyard garden or small truck farm, for use around the chicken house, in the dairy barn, hog pen, for disinfectants in the home or in hotels, restaurants, theatres and other public buildings.

Tank. 6½ inches diameter, 17 inches long; capacity about 2½ gallons.

Pump. 1¾ inches diameter, 15 inches long; seamless brass tubing.

Nozzle. Our "Perfection" automatic shut-off nozzle.

No. 140G Junior, galvanized tank, price **$4.75**

No. 115G STERLING SPRAYER

The No. 115G Sterling meets the demand for a high pressure sprayer for the small home owner whose needs do not justify the cost of a larger capacity sprayer.

Tank. 6½ inches in diameter by 15 inches high. Capacity approximately 2 gallons.

Equipment. Hose ⅜ inches 5 ply. The nozzle is all brass, automatic in operation and will shut off under any pressure. Equipped with curved brass extension, price **$4.35.**

ACME NO. 505G COYOTE

SELF-FILLING TOP COMPRESSED AIR SPRAYER

The No. 505G COYOTE Self-filling Top Sprayer fills quickly without messing or waste, saves time and valuable spraying materials. The top is so made that you can pour the spraying material right into the spray as the top of the sprayer is also a funnel.

Tank, 7½ inches in diameter, 20 inches high, made from heavy material, side seam is both soldered and riveted. The head and bottom are installed in the strongest possible manner.

Pump, seamless brass tubing, 1¾ in. in diameter, 14 in. long with brass ball valve, and has a large comfortable D handle.

Nozzle is of the Automatic type with convenient lever; the by-passes are constructed to eliminate clogging, full length heavy duty spray hose and brass extension rod with angle or underneath end for convenient spraying.

No. 505G. Capacity about 4 gallons **$3.75**

BROWN'S AUTO SPRAY No. 9

The Auto Spray No. 9 is an excellent compressed air sprayer for use in spraying small trees, gardens, field crops, chicken houses, etc. This Sprayer has the Brown drain-dry feature. This Sprayer, because of the cam lock device, is especially adapted for spraying gummy or heavy substances, besides agricultural insecticides, disinfectants and light floor oils. Corrugated tank of heavy sheet copper or strong copper bearing galvanized steel sheet.

Auto Spray No. 9-C, Copper Tank, priced at **$9.75.**

Auto Spray No. 9-A, Galvanized Tank, priced at **$6.25.**

BLUE RIBBON SPRAYER

An excellent compressed air sprayer, made of heavy copper bearing galvanized steel. This sprayer has been greatly improved by the addition of an **aluminum,** hexagonal, threaded pump cap, Non-Clog screen nozzle and 2-inch diameter seamless brass pump with all brass valve.

Completely equipped with extra wide carrying strap, ⅜-inch 5 ply spray hose, automatic all metal shut off, seamless brass extension and Non-Clog nozzle.

It will handle all spraying solutions, and is an excellent general purpose sprayer.

3¾-gallon capacity **$5.50**

BLUE RIBBON JR.

2½-gallon capacity **$3.75**

CHALLENGER

A new inexpensive sprayer designed to meet the demand for a fine quality sprayer at low price. The tank is of best quality copper bearing galvanized steel, pump is of seamless brass with leak proof valve, has T-shaped malleable iron handle, and is completely equipped with wide web carrying strap, ⅜-inch 5 ply special spray hose, all-metal automatic shut off, seamless brass extension, and screen Non-Clog nozzle. Has **brass screw locking cap** for easy filling and emptying.

Will handle all spraying solutions, and may be used for all spraying purposes.

3½-gallon capacity **$3.65**

ACME APACHE SPRAYER NO. 500G

SELF-FILLING TOP

The Acme Apache Sprayer is the original Self-filling Compressed Air Sprayer. It has a built-in self-filling top for quick, clean, and easy filling. No funnel required. No slopping. No waste of expensive spray materials. No dirty tank to carry around. Can be filled in the wind. Protected safety top-locking device. No danger if top is removed when tank is under high pressure. Feed tube removable for cleaning. Tank can be drained dry. Delivers one gallon in six minutes. Made for all general purpose work in the field, garden, home or factory.

Capacity, about 4 Gallons

PRICE—$4.60

GOULD'S POMONA SPRAY PUMP

Plunger—Diameter 2½ ins.; stroke adjustable to 3, 4, 5 ins.; discharge ½-in. hose.

Outside packed plungers. No. leather packings.

For small orchards of a few acres; a good barrel sprayer that will meet every requirement. **All of the working parts are solid bronze.**

The pump has a steel air chamber, extending from top of pump to valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after pumping has stopped. It is equipped with a long adjustable handle. The pump may be placed in any length barrel, as the barrel plate is adjustable. The agitator is simple, very very effective.

	List Price.	Our Special Price.
Fig. 1100.—Pump only with Agitator and Hose Coupling	$35.20	$22.00
Fig. 1100.—Outfit A.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead, but without Hose	37.52	23.45
Fig. 1100.—Outfit B.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose	41.12	25.70
Fig. 1100.—Outfit C.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, Fitted in Barrel	51.12	30.70
Fig. 1100.—Outfit D.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr., Nozzle, one 15-ft. lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	53.76	32.35

GOULD'S "FRUITALL" SPRAY PUMP

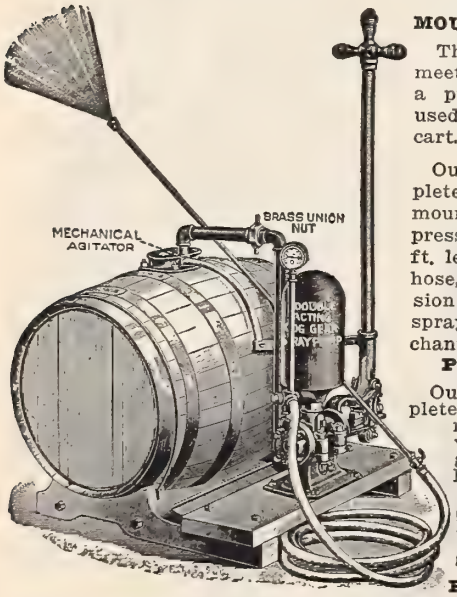
All Working Parts Bronze

The Fruitall Sprayer is first-class in every respect, while the simplicity of its design allows it to be sold at a very reasonable price. The sprayer is held in place in the barrel by an adjustable clamp at the top fitting over the end of a stave, and an anchor at the bottom of the barrel. The plunger is packed from the outside, so it is not necessary to take the entire pump apart to repack.

Plunger, 2 inches diameter; stroke, 4 inches.

	List Price	Our Special Price
Fig. 1188.—Pump only with Agitator and Hose couplings	$19.70	$12.25
Fig. 1188.—Outfit A.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead of hose, but without Hose	22.04	13.70
Fig. 1188.—Outfit B.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose	25.62	15.95
Fig. 1188—Outfit C.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle, one 15-ft. lead No. 1 Spray Hose, fitted in barrel	35.62	20.95
Fig. 1188.—Outfit D.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	38.20	22.60

DOUBLE-ACTING SPRAY PUMP



MOUNTED ON SKIDS

This desirable outfit meets the demand for a pump that can be used in a wagon or cart. It cannot upset.

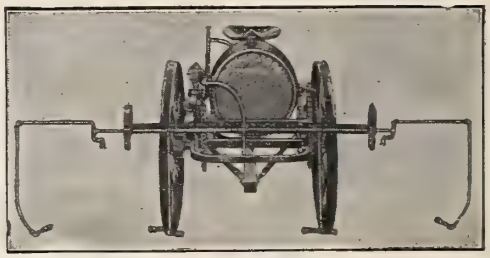
Outfit B—Pump, complete, 50-gallon barrel mounted on skids, with pressure gauge; one 15-ft. lead ½-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzle and mechanical agitator.

Price $54.00

Outfit C—Pump, complete, 50-gallon barrel mounted on skids, with pressure gauge; two 15-ft. leads of ½-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzles and mechanical agita-

Price $60.00

McKENZIE THREE AND FOUR ROW SPRAYERS



50 Gallon, 3 Row, 3 Nozzles to Row

This 110-Gallon High Pressure Sprayer, the latest addition to the popular McKenzie line, marks another step forward in sprayer construction. It embodies the improvements you want in your high pressure sprayer and is built to give years of satisfactory service.

The New McKenzie 100-Gallon High Pressure Sprayer is regularly equipped with wide evener and neckyoke, automatic pressure gauge and Nixon or No. 10 boom for spraying four rows with three nozzles per row, or No. 11 boom for six rows with two nozzles to the row. These booms are made of all galvanized iron pipe with ¾-inch and ½-inch main line with drop pipes of the same size. They can be adjusted to suit practically all crop conditions and are hinged for passing through narrow gates.

50 gallons, 3 rows, 3 nozzles to row $125.00
100 gallons, 4 rows, 3 nozzles to row 200.00

THE MYERS SELF OILING JUNIOR POWER SPRAY OUTFIT

Fitted with 2¼x3 Double Acting Self-Oiling Pump

Fig. 2692

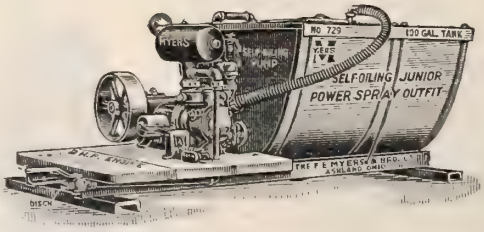


Fig. 2692 illustrates the Myers Junior Power, Spray Outfit as furnished complete except the engine. TANK, cypress, 100 gallons, fitted with rotary agitator. FRAME, 3-inch channel steel. Length overall, 6 feet 8 inches. DECK space for Engine 36x36 inches. PUMP, No. 699.

Equipped as follows: One Myers Spray Gun. 50 feet of ½-inch Myers High Pressure Spray Hose with fittings complete, cut-off for discharge lines, pressure gauge, agitator, belt tightener, relief valve, strainer and suction hose.

No. 729, Myers Junior Spray Outfit with 100 gallon Tank and No. 699 Spray Pump, belt driven, equipped as shown $148.00

No. 739 with 2 h. p. Engine, chain drive $233.00

MYERS OVERHEAD SPRAYER

For Potatoes, Cotton or other field crops. Nozzles adjustable to any required height and any width row.

No. 6 Myers Hand Overhead 4 Row Adjustable Sprayer, complete with all necessary Hose and Nozzles (Pump and Barrel not included).

Our Special Price $20.00

STIMUGERM
LEGUME INOCULATION

HIGH-BRED NITROGEN-GATHERING BACTERIA

MEANS BETTER CROPS, BETTER SOILS, LESS FERTILIZER EXPENSE

STIMUGERM—The "Always Fresh" Inoculant

What Stimugerm is: A pure culture of nitrogen-fixing bacteria of highest quality. **Stimugerm,** always fresh, always strong and virile.

A sensible insurance and a profitable investment. We believe in inoculation, we favor the pure jelly medium, and we believe in **Stimugerm.** We recommend that all legume seeds purchased from us be inoculated before planting.

(A different culture is required for each legume group, so when ordering be sure to state what crops you wish to inoculate.)

New Low Prices—For Small Seeds, Clovers, Alfalfa, etc.

SMALL SEED LEGUME VARIETIES Alfalfa—Clovers—Sweet Clovers		LARGE SEED LEGUME VARIETIES Soybeans—Cowpeas—Vetch—Peas	
½ bu. size retails at	$0.35	1 bu. size retails at	$0.35
1 bu. size retails at	.65	2 bu. size retails at	.65
2½ bu. size retails at	1.40	5 bu. size retails at	1.40

Garden size for Garden Peas, Beans and Sweet Peas.
Special Composite Culture, **25c.**

PASTOXINE

The New Non-Poisonous Exterminator of Rats and Mice

It is a product of the "LABORATOIRE DES VACCINS PASTEUR, P. E.", Paris France. This Laboratory, devoted exclusively to scientific research, was founded over half a century ago, and is known all over the world.

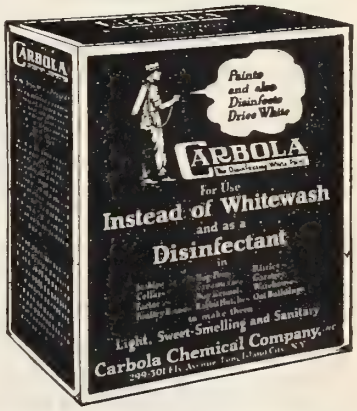
Tests have constantly proved that **PASTOXINE** causes in Rats and Mice external symptoms similar to Progressive Asphyxia, viz. paralysis of the respiratory organs. The Rodents, as soon as they start being sick, eagerly search for WATER, and even more especially, for AIR. This induces them to leave their holes, and they die in about six hours out in the open air, away from their cache. **Price, 60c.** (If by mail add 5c for postage.)

CARBOLA

CARBOLA is a white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is non-poisonous and non-caustic. It kills lice, mites, fly eggs, etc., and helps prevent the start and spread of contagious diseases that affect man, beast and fowl.

PRICES

5 pounds (2½ gals.)	$0.60
10 pounds (5 gals.)	1.00
50 pounds (25 gals.)	3.50



CYANOGAS—A Dust
REG. U.S. PAT. OFF.

CYANOGAS A-DUST is a powdered material that gives off hydrocyanic-acid gas when exposed to the air. This gas is deadly to the rodent and insect pests and will kill them almost immediately.

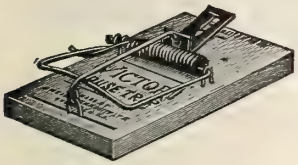
CYANOGAS A-DUST can be applied either with a duster or with a spoon.

The CYANOGAS method of controlling rodent and insect pests is easy, quick and thorough.

CYANOGAS A-DUST to kill Ants, Rats, Mice, Moles, Crayfish, Land Crabs, Land Turtles, Woodchucks or Ground Hogs, Prairie Dogs, Ground Squirrels, Pocket Gophers in Florida, Fleas, Bed Bugs, Clothes Moths, Wax Moths, Bats, Pigeons, Sparrows, Starlings, Yellowjackets, Wasps, Chinch Bugs on Lawns, Grape Leafhopper, Grape Mealy Bugs, Melon Aphis (Box Fumigators).

CYANOGAS A-DUST—25-lb. tins **$10.00,** 5-lb. tins **$3.00,** 1-lb. tins **75c, ½-lb. tins 45c, Hand Pump $1.25, Foot Pump $5.50**

VICTOR

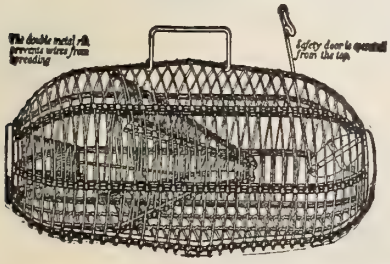


MICE AND RAT TRAPS

Made of hard wood blocks, bait hook designed to make catching sure every time. Long clinched staples that can't come out.

Price, Mice Traps, 3 for....**10c**
Postage extra 5c
Rat Traps, each.....**10c**
Postage extra 5c

THE WIRE CAGE RAT TRAP



The size of this trap makes it the ideal for house use.

It is strong and will stand rough use.

The patent door eliminates all danger from the caged rats. Size, 16 inches long, 9 inches wide, 7 inches high.

No. 17 coppered wire, nine sheet-steel flanged ribs.

Price **75c**

Dethol

SPRAY IN THE HOME AND ON THE FARM

IMPROVED DETHOL, sprayed lightly on tile, porcelain, wash basins and bath tubs, immediately loosens grime and grease, which can then be quickly and easily removed by wiping with rag, leaving a spotless and glistening surface. Also aids in disinfecting and deodorizing, and helps to purify foul-smelling air. Its cleansing spray penetrates where neither brush nor broom can reach.

On the farm, **IMPROVED DETHOL,** sprayed freely in hen houses, etc., and sprayed lightly and regularly on poultry and stock, keeps them free from many kinds of insects and vermin. Do not spray **IMPROVED DETHOL** on young animals, cats or vegetation.

½ pint 30c, 1 pint 50c, 1 quart 90c, 1 gallon $3.00

SPRAY CALENDAR

WHAT TO SPRAY	FOR WHAT TO SPRAY	WITH WHAT TO SPRAY	First Spraying	Second Spraying	Third Spraying	REMARKS AND CAUTION
Apple	Codling Moth	Kaylox	As soon as blossoms fall	7 to 10 days later		Later spraying if made should be made with diluted solutions
	San Jose Scale	Lime-Sulphur Scalecide	Late in fall, late in winter or early in spring	Repeat when necessary		Use Lime-Sulphur only when trees are dormant
	Rosy Aphis	Black Leaf 40	When buds show pink			
	Green and Black Aphis	Black Leaf 40	When first appear			
	Scab	Kaylox	Just before blossoms open	Within a week after blossoms have dropped	Same 7 to 10 days later	The spray just before blossoms open is very essential for scab
	Woolly Aphis	Black Leaf 40	When trees are in full leaf	In fall		Don't use strong emulsion when trees are in full leaf
Asparagus	Asparagus rust	Kaylox	After cutting crop	10 days later	10 days later	Repeat 3 to 4 times. Burn rusted brush in the fall
Bean	Bean Beetle	Magnesium Arsenate				
	Anthracnose	Kaylox	On 2 or 3-inch plants	10 days later	After blossoms	
Cabbage and Cauliflower	Cabbage Worm	Kaylox	With first appearance of worms	Whenever worms are observed	Same	1 lb. to 13 gals. of water
Cherry	Rot	Kaylox	Before blossoming	After blossoming drop on fruit	Two weeks later on fruit	When fruit is large
	Curculio	Arsenate of lead	Before blossoming	As blossoms dry up	One week later	Avoid strong solutions. Do not use other arsenicals than arsenate of lead
Cucumber	Cucumber Beetle	Kaylox	Soon as plants appear	Week later	Week after second	Week after fourth
Currant	San Jose Scale	Lime-Sulphur	As with apple	In spring as with apple		
	Worm	Kaylox	When worms first appear	Repeat in 3 or 4 days	Repeat as second	Look for worms on under side of leaves first
Gooseberry	Mildew	Kaylox	Before blossoms open	After blossoming	Two weeks later	
	Worm	Kaylox	As on Currants			
Grape	Anthracnose	Kaylox	Just before buds open	Just before blossoming	Just after fruit has set	
	Downy and Powdery Mildew and Rot	Kaylox	Just before blossoming	Just after fruit has set	7 to 10 days later	Follow by two or three sprayings
Peach	Leaf Curl	Kaylox	In fall or spring	As buds are opening		
	Borer	Para Dichlorobenzine	May	September		
	Rot and Scab	Dritomic sulphur	As buds are swelling	Just after calyxes drop add arsenate of lead	2 to 3 weeks later	Destroy all mummies
	Bud Moth	Arsenate of Lead	With opening of buds			Use only half usual amount of poison
	San Jose Scale	Lime-Sulphur Scalecide	In late fall or early spring			
Pear	Scab	Kaylox	When leaves are half grown	After blossoms drop		
	Codling Moth	Kaylox	As with Apple	Same as first		See Apple
	San Jose Scale	Lime-Sulphur	In fall or early spring			
Plum	Rot	Kaylox	As buds are swelling	Dritomic Sulphur	3 to 4 weeks later as second spray	Repeat every 7 or 10 days as third spray
				Just after calyx drops		
	Curculio	Kaylox	With starting of buds	Arsenate of Lead	5 days later	Destroy all mummies
				Just after calyx drops		Gather and destroy curculios and stung plums
	San Jose Scale	Lime-Sulphur or scalecide	In late fall or early spring			
Potato	Early Blight	Kaylox	When plants are 6 inches high	Two weeks later	Two weeks later	
	Scab	Soak seed in Semesan Bel				
	Colorado Beetle	Kaylox	When beetles or young appear	As for first		Kaylox, 7 lbs. to 50 gals. of water
Quince	Fruit and Leaf Spot	Kaylox	Just before blossoms open	After blossoms drop	Two weeks later	
	San Jose Scale	Lime-Sulphur	In late fall or early spring.			
Raspberry and Blackberry	Anthracnose	Kaylox	Before leaves open	On canes 6 inches high	Repeat second 1 week later	Keep spray from leaves on bearing canes
Rose	Leaf Spot	Kaylox	With first appearance of fungus	2 or 3 weeks later	Repeat if necessary	
	Mildew	Pomo Green	When leaves appear			
	Slug					
	Aphis	Lemon Oil Co.'s Standard Insecticide	On appearance of slug	Repeat if necessary		
Strawberry	Leaf Spot	Kaylox	On new growth after crop	2 or 3 weeks later		
Tomato	Blight	Kaylox	Soon after fruit begins to set	Three weeks later	Three weeks later	
Evergreens	Red Spider	Volck		Early spring		
	Rust					
	Bag Worm	Arsenate of Lead		When necessary	Repeat if necessary	
House Plants	White Fly	Lemon Oil Co.'s Standard Insecticide		When necessary	Repeat if necessary	
	Scale					

LEMON OIL COMPANY'S STANDARD

INSECTICIDE

THIS INSECTICIDE

is death to pests—is safe to plants—is harmless to user—is low in price—is free from disagreeable odor.

We recommend **Lemon Oil Co.'s Standard Insecticide.** It is used by the most prominent florists and seeds men to destroy **Scale, Mealy Bug, Rust, Aphis, Caterpillar, etc.,** on Palms, Rose Bushes, Rubber Plants, Ferns, etc. It leaves no disagreeable odor on blooms or foliage—advantages over the vile-smelling soaps and powders, especially for indoor use. Being poisonless, it is not dangerous to use.

This will be found an **excellent wash for dogs and other animals; it relieves mange, destroys lice and other insects,** and gives the coat a beautiful, glossy appearance. Contains no poison to injure the animal, and being liquid, gets through the hair to the hide.

It will destroy **lice and other insects in poultry houses.**

It will also kill **roaches, ants and other insects that infest houses.**

½ pint **30c,** 1 pint **50c,** 1 quart **85c,** ½ gallon **$1.50,** 1 gallon **$2.50,** 5 gallons **$10.00,** 10 gallons **$19.50.**

LIME SULPHUR SOLUTION

The universally accepted spray material for dormant use is lime-sulphur solution. Chemically made lime sulphur solution has now almost entirely supplanted the home-made solution because it is better.

This material combines the great fungicidal properties of sulphur with the scale remedy, and is especially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands.

Lime-Sulphur Solution is used both as an insecticide and a fungicide. As an insecticide it is used principally against scale insects, especially the San Jose Scale. For scale insects it is applied while the trees are dormant and is diluted with 8 or 9 parts of water. As a fungicide it is used chiefly for the control of apple scab, 1½ gallons to 50 gallons of water. Lime-Sulphur may be used in combination with arsenate of lead and tobacco extracts. Paris Green should not be used with Lime-Sulphur.

1-qt. Can	$0.30	30-gal. Drums, per gallon	.18
½-gal. Can	.50	Drums about 50 gal., per gal.	.16
1-gal. Can	.75		
5-gal. Can	2.50		
10-gal. Can	4.00	No charge for Drums.	

POISON KILL-WEED POISON

NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR. By Analysis It Has Been Found There is No Stronger Weed Killer on the Market.

An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters, streets and any other place from which it is desired to remove any and all vegetable growths, thus destroying the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing.

No more digging and disfiguring of paths and roadways. Saves expense of several men. **KILL-WEED** not only kills weeds but destroys seed germs and roots of plants. Can be used with an ordinary sprinkling can. **One gallon KILL-WEED will make 30 gallons treating liquid when mixed with water.** One man with a sprinkling can in **one hour** can do as much or more than **six men** could do in **one-half day,** and do the work better.

1-Quart Can	$0.50	5-gal. Can	6.50
½-gal. Can	.90	10-gal. Can	12.00
1-gal. Can	1.50	1 Barrel, per gal.	.95

SCALECIDE

Pleasant to Use.
Reduces Sprayer Troubles.
Prolongs the Life of Your Sprayer.
Spreads into Cracks and Crevices.
Saves Half the Labor of Spraying

—One spray tankful of dilute Scalecide goes as far on your trees as two spray tankfuls of dilute lime-sulphur or two and one half spray tanks of diluted oil emulsion.

A 50-gal. barrel of Scalecide sprays the same trees, until they drip, as three and one-half barrels of lime-sulphur.

PRICES
A Size for Every Need

One gallon makes 16 gallons of spray.

1 qt. can	$0.65
1 gal. can	1.55
5 gal. can	5.50
10 gal. can	9.50
15 gal. drum	11.25
30 gal. drum	18.50
50 gal. drum	26.00

Plus Deposit on Drums

15 gal.	$2.00
30 gal.	2.50
50 gal.	3.00

DRY LIME SULFUR

Dry Lime Sulfur is the most valuable new spraying product that has been developed in recent years. For a long time Lime-Sulfur Solution had been the standard dormant and summer spray for apples, pears, plums and many other tree fruits. Orchardists are familiar with the disadvantages connected with the use of Lime-Sulfur Solution. These include heavy handlings of barrels, losses due to leakage, crystallization and freezing and freight on water.

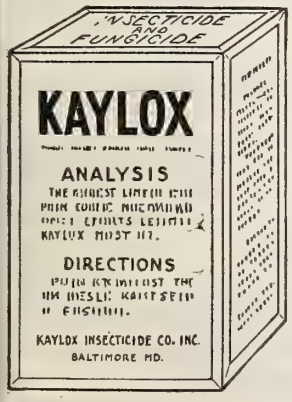
This Dry Lime-Sulfur is a true Dry Lime-Sulphur. It is not a substitute for Lime-Sulfur Solution, but is standard 33° Baume Lime-Sulfur Solution in dry powdered form. It dissolves readily in water and will control insects and diseases just as effectively as Lime-Sulfur Solution.

Dry Lime-Sulfur is an effective remedy for San Jose and Oyster-Shell Scale, Peach-Leaf Curl, Peach Blight, Peach Twig Borer, Blister-Mite, Apple and Pear Scab, Brown Rot of Apricot, Powdery Mildew of Apples, Red Spiders, Mites and Thrips of Citrus fruits.

	Pkg.
200-lb. steel drums	$22.00
100-lb. steel drums	12.00
50-lb. steel drums	7.00
25-lb. steel drums	4.00
10-lb. cans	2.00
5-lb. cans	1.25
1-lb. cans	.30

Trade KAYLOX Mark

Registered in U. S. Patent Office.



INSECTICIDE AND FUNGICIDE

Kills Insects and Prevents Blight

KAYLOX is adapted for spraying for late broods of Codling Moth on Apples, for Potato Beetles, most Caterpillars and many Leaf-eating Insects on fruit and other trees, Tomatoes, Grapes, Currants, Celery, Cabbage, Cauliflower and many other Plants.

A preventive of many Blights and certain Fungous diseases.

Used as a general spray—1 pound to 10 gallons or 5 pounds to 50 gallons of water.

For Potatoes, Bitter Rot and Blotch on Apples. Use 1 pound to 7½ gallons or 6½ or 7 pounds to 50 gallons of water.

Not to be used for late Spring or early Summer application on Apples, and not to be used on Peaches or Japanese Plums after blooming.

KAYLOX IS A POWDER, NOT A PASTE

HIGH FREIGHT RATES make it imperative that you buy **KAYLOX,** a highly concentrated spraying material, as you then do not have to pay freight on a preparation that is 50% water.

KAYLOX never spoils, **KAYLOX** never freezes, **KAYLOX** never becomes worthless, **KAYLOX** is always at your service, **KAYLOX** should be used, because it is your best insurance for a full crop.

KAYLOX is the outcome of many years of development in the use and manufacture of insecticides and fungicides. It meets the requirements of the largest growers as well as the small home gardener. **KAYLOX is in convenient size packages.**

½ Pound makes 5 gals. of spray	$0.25	25 Pounds make 250 gals. of spray	$7.75
1 Pound makes 10 gals. of spray	.45	50 Pounds make 500 gals. of spray	15.00
5 Pounds make 50 gals. of spray	2.10	100 Pounds make 1,000 gals. of spray	26.50
10 Pounds make 100 gals. of spray	3.75		

WRITE FOR SPECIAL CIRCULAR.

ARSENATE OF LEAD

Arsenate of Lead is an arsenical poison for use against insects that chew and for such insects as the fruit-flies that lap and suck up sweetened liquids.

The principal insects for which Arsenate of Lead is used are: Apple-maggot, brown-tail moth, bud-moth, cankerworm, codling moth, fruit-tree leaf roller, gypsy moth, tent caterpillar, pear slug, curculio, etc.

Directions: 1 to 1½ lbs. powder to 50 gallons of water. Powdered Form.

1-lb. pkg., per lb. **20c**
4-lb. pkg., per lb. **16c**
48-lb. pkg., per lb. **14c**

ARSENITE OF ZINC

Arsenite of Zinc.—This is a combination of arsenic with zinc to form a quick acting, adhesive insecticide for use on potatoes and some other truck crops. It is much more adhesive and less caustic than Paris Green and kills quicker than Arsenate of Lead.

1-lb. pkg., per lb. .....**25c.** 4-lb. pkg., per lb. .....**21c.**
48-lb. pkg., per lb. .....**16c.**

CALCIUM ARSENATE

1-lb. pkg., per lb. .....**15c.** 4-lb. pkg., per lb. .....**11c.**
48-lb. pkg., per lb. .....**10c.**

COPPERCARB

A new remedy for bunt or stinking smut in wheat. Being a powder which can be applied without any further mixing directly to the grain, makes it more economical than the old wet system, and as it can be done at any time, even months before sowing, does away with the evils of any soaking or wet process.

Raise clean wheat and save the loss in reduced prices when you sell your crop.

Use 2½ to 3 ounces to treat one bushel of wheat.

5-Pound Packages, per pound.. **$0.18**

HAMMOND'S SLUG SHOT

Destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre.

1-lb. pkg. **25c**
5-lb. pkg. **75c**

HAMMOND'S GRAPE AND ROSE DUST

5 lbs. **$1.15**

"NICO-FUME TOBACCO POWDER

Tobacco Powder impregnated with a high-strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphis, Thrips, etc.

Fill an ordinary 2½-inch flower pot heaping full of "Nico-Fume" Powder (this being equal to about three heaping tablespoonfuls).

Pour the "Nico-Fume" Powder out upon the bare ground or cement walk in a narrow pile about seven inches long.

1 Pound **$1.00**
5 Pounds **3.35**
10 Pounds **5.85**

F. O. B. Factory.

TOBACCO DUST

Price ..... 5 pounds, 25c; 25 pounds, **$1.00**; 100 pounds, **$4.00.**

FORMALDEHYDE, 40% SOLUTION

1-Pt. Bottles, **50c.** 1-Qt. Bottles, **90c.** 1-Gal. Jug, **$2.50**

DRITOMIC SULPHUR

There has been a growing demand for fungicides in dry form. To meet this demand, the General Chemical Company has developed a highly concentrated sulphur product; a product that combines the advantages of Atomic Sulphur with the advantages particular to dry powdered materials. This new product will give the fruit the well-known sulphur finish, without interfering with the assimilatory functions of the foliage or the development of the plant treated.

PRICE

4-lb. Bags, per lb. **18c**
48-lb. Bags, per lb. **12c**
96-lb. Bags., per lb. **11c**

BORDEAUX MIXTURE

is a combination of copper sulphate and lime. Its use is indispensable in the control of black rot of grapes and the blight of potatoes. It is also used for apple-scab, bitter-rot, cedar rust, leaf spot and downy mildew.

Directions: 6 to 7 pounds to 50 gallons of water.

1-lb. pkg., per lb. **20c**
4-lb. pkg., per lb. **16c**
48-lb. pkg., per lb. **14c**

DOW MAGNESIUM ARSENATE

Dow Magnesium Arsenate gives best results when applied as a wet spray, using 2 pounds per 100 gallons of water. This gallonage is sufficient for about one acre of beans.

Should you be interested in a prepared product, ready for use in a duster, we recommend Dow Magnesium Arsenate Dust Mixture. This contains genuine Dow Magnesium Arsenate blended with hydrated lime in accordance with government recommendations.

2-lb. Packages ..... **$ .60**
100-lb. Drums **22.00**

MAGNESIUM ARSENATE DUST

PREPARED READY TO USE

4-lb. Packages ..... **$ .60**
100-lb. Drums **12.00**

ATLACIDE

A NON-POISONOUS WEED KILLER

Can be dissolved in water and applied as a spray, or can be dusted on the weed growth. Very effective on poison ivy.

1 lb. can, kills 100 to 450 sq. ft. weeds ..... **$ .50**
3½ lb. can, kills 350 to 1,500 sq. ft. weeds **1.50**
15 lb. drum, kills 1,500 to 2,500 sq. ft. weeds **3.50**
50 lb. drum, kills 5,000 sq. ft. weeds, per pound ..... **.14**
100 lb. drum, kills 10,000 sq. ft. weeds, per pound ..... **.13½**
200 lb. drum, kills 20,000 sq. ft. weeds, per pound ..... **.13**

"BLACK LEAF 40"

NICOTINE SULPHATE—40% NICOTINE

This is the insecticide that is so highly recommended by Experiment Stations. It destroys Aphis (plant lice), Thrips, Leaf-hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insects—all without injury to foliage.

May be combined with other sprays. Highly concentrated. Soluble in water—easy to mix—does not clog nozzles.

You cannot go wrong by ordering "Black Leaf 40" for sucking insects.

PRICES

1 oz., $ .35, makes 6 gals. 5 oz., $1.00, makes 40 to 120 gals. 1 lb., $2.25, makes 80 to 240 gals. 2 lbs., $3.25, makes 160 to 480 gals. 5 lbs., $5.85, makes 400 to 1,200 gals. 10 lbs., $9.85, makes 800 to 2,400 gals.

NICO-FUME

Nico-Fume is a **Tobacco Paper** insecticide for fumigating greenhouses. Extensively used by prominent florists. **Very easy to apply.** Prices: 24 sheets, **$1.25**; 144 sheets, **$4.50**, and 288 sheets, **$8.00. Directions on each package.**

TOBACCO STEMS

50-pound bale ..... **4c pound.**

PARA-DICHLOROBENZINE

FOR PEACH BORER CONTROL

Use one ounce to a tree 6 years old or older; in case of very large tree, 1½ ounces may be needed to form a satisfactory band. On trees four or five years old, use ½ to ¾ ounces to a tree. We do not recommend using it on younger trees. Do not use on apple trees.

Spring application in May—Fall application in September.

1-lb. package, per lb.....**$0.45** 25-lb. package, per lb.....**$0.26**
5-lb. package, per lb..... **.35** 100-lb. package, per lb..... **.21**

CYANOGAS G FUMIGANT

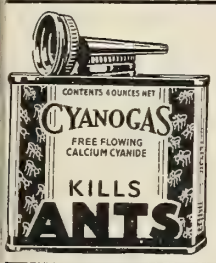
REG. U.S. PAT. OFF.

FOR GREENHOUSES

One-eighth ounce to 1000 cubic feet is a sufficient dose if the house is fairly tight. Always start the fumigation about one hour after sundown—never before. Choose a still night. The house should not be watered for at least twenty-four hours before fumigation. Some plants will not stand the treatment and should be removed from the house.

Cyanogas G Fumigant (cannot be mailed):

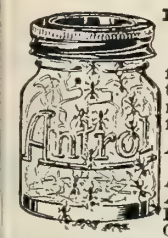
5-pound pkgs.....**$3.00** 25-pound pkgs.....**$10.00**



CYANOGAS ANT-KILLER

Enlarge entrances to nest and pour in small amount of Cyanogas Ant-Killer. Close hole with dirt. The deadly gas liberated destroys the colony and kills the queen residing deep in the nest. The 4-oz. can contains enough to kill a million ants.....**30c**

Antrol ANTS DESTROYED



New method "gets" them at their source—Safe, Permanent, Effective

The complete system should cover every 15 feet around the outside of the house or "ant" trails in the garden. Once installed permament, effective and safe protection is insured from these annoying pests. Prices:

Antrol sets containing 4 containers and 1 4-oz. bottle of syrup.....**$0.75**
Antrol extra containers (each).....**.15**
Antrol syrup, 4-oz. bottles.....**.45**
Pints.....**.95**
Gallons.....**3.75**
Special Ready Filled Set, 4 containers.....**.40**

BOURBON FLUOSILICATE DUST MIXTURE

Bourbon Remedy Company **Fluosilicate Dust Mixture** is adapted for the control of Mexican Bean Beetles, Potato Bugs (Beetles), Striped Cucumber Beetles, Blister Beetles, certain Flea Beetles, and Boll Weevils, and it may also be used to destroy Cutworms, to rid premises of Ants and Roaches, and to kill the Lice on fowls.

Price, 100-lb. Drums.....**$15.00**

POMODUST

Pomodust is a combination of highly effective fungicides and insecticides in combination for the prevention of many blights, mildews and fungus troubles and to kill external leaf eating insects. Pomodust is especially adapted to use on roses, and is used and recommended by many prominent growers.

Price—1-lb. pkg. 30c—5-lb. pkg. $1.15.

POMO GREEN

1 lb.....**50c** 5 lbs.....**$1.75**

POMO GREEN WITH NICOTINE.....**1 lb. 75c, 5 lbs. $3.00**

NURSERY VOLCK

Volck is one of the most powerful insecticides known. It is effective on practically all insects on ornamental and flowering plants. Wonderful results have been obtained against red spiders, cyclamen mite, aphis (green fly), scale, mealy bug, thrips, and caterpillars. Many pests that could not be controlled before are now killed with Volck. Even mildew and rusts are prevented and stopped by Volck. Not only does Volck give effective control of pests, but it also prevents reinfestation for a considerable period. Volck is odorless, colorless and non-poisonous. There is no unsightly residue. Plants are deep, glistening green after using Volck.

Prices, ½ pt., 35c; 1 pt., 50c; 1 qt., 75c; 1 gal., $2.00; 5 gals., $6.25; 14 gals., $13.00; 28 gals., $23.80.

KAYSO

Kayso is the combined casein spreader and adhesive which makes orchard and garden spraying more economical and more efficient. Kayso is now used by fruit and vegetable growers in all parts of the United States. Kayso enables you to get your trees completely covered by a protective film of poison, with no unprotected spaces.

Prices—2-lb. pkg. **$0.36**
100-lb. pkg. **16.00**

PARIS GREEN

¼ pound **$0.15**
1 pound ..... **.45**
5 pounds **1.85**

TREE TANGLEFOOT

For protecting trees against climbing insect pests in a simple, economical, and effective way. One pound will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on tree three months.

1-lb. can **$0.50**
5-lb. can **2.25**
10-lb. can **4.25**

KEY BRAND TREE WOUND PAINT

PREVENTS DECAY AFTER PRUNING

This residium, penetrating antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding.

NOTE: Antiseptic paint for wounds and pruning purposes. **1 Pt. cans, 60c. 1 Qt. cans, $1.00. 1 Gal. cans, $2.50.**

FISH OIL SOAP

1 lb. .....**$0.30** 10 lbs. **$2.25**
5 lbs. ..... **1.25** 25 lbs. **3.25**
100 lbs. **$10.00**

FLOUR OF SULPHUR

1 lb. .....**$0.12** lb. 25 lbs. .....**$0.08** lb.
5 lbs. ..... **.10** lb. 50 lbs. ..... **.07** lb.
10 lbs. ..... **.09** lb. 100 lbs. ..... **.06** lb.

COMMERCIAL FLOUR OF SULPHUR
Sold in 100-lb. bags only. Per 100 lbs., $3.25.

DUSTING SULPHUR

85-15 Dust. Contains 15 per cent Dry Arsenate of Lead and 85 per cent Flour Sulphur. A very effective dusting material for Strawberries, Cantaloupe, and other Melons, and in fact is an ideal dust for many uses.

100-pound Bags, per bag.....**$7.00**

SULFOCIDE

A Better Summer Spray

A concentrated liquid sulfur fungicide. Used on both peaches and apples and on all kinds of fruits, vegetables, and flowers. Controls apple scab, brown rot of peaches, plums and cherries; blight and rot of potatoes, tomatoes and melons; mildew and rust of flowers and shrubs. Convenient, economical, effective. Dilute 1 to 200.

Prices: 1 pt. 50c; 1 qt. 85c; 1 gal. $2.25; 5 gals. $7.50; 10 gals. $13.50; 30 gals. $33.00; 50 gals. $50.00.

BLUESTONE (OR COPPER SULPHATE)

5 lbs. .....**$0.50** 50 lbs. **$4.25**
10 lbs. ..... **.90** 100 lbs. **6.00**

Snarol

The National Pest Control

Science provides new safe methods that does the work without fuss. Cutworms, sowbugs, grasshoppers, slugs, snails, earwigs, etc., are exterminated.

Prices: 1-lb. pkg. 45c; 3-lb. pkg. 95c; 15-lb. pkg. $3.50; 50-lb. bags $9.50.

SEMESAN

FOR FLOWER AND VEGETABLE SEEDS

Semesan is indispensable to those growing vegetables or flowers whether for market or home use. It may be applied in dust or liquid form to the seed before planting. It is harmless to the seed but deadly to any disease organisms that may be on the seed. One ounce treats 15 lbs. of seed. Effective in controlling damping off, the Brown Patch disease which affects golf greens and such devastating gladiolus diseases as hard rot and scab.

2 oz. tin	$ .50	5 lb. tin	11.75
1 lb. tin	2.50	25 lb. pail	46.25
100 lb. drum	$220.00		

SEMESAN, JR.

FOR SEED CORN

Applied by the simple dusting operation at the rate of 2 oz. to each bushel of seed corn, Semesan, Jr., offers the cheapest and most effective form of disease insurance.

It is especially effective in controlling seed-borne infections of diplodia, Gibberella and Basisporium, without harming the seed embryo in the least.

Its use protects the seed from rotting in ground and makes possible earlier planting.

4 oz. tin	$ .50	5 lb. tin	$7.00
1 lb. tin	1.50	25 lb. pail	31.25

RED ARROW INSECT SPRAY

VARIOUS USES

Red Arrow kills: Aphids, (Plant Lice), Mealy Bugs, Squash Bugs, Rose Chafers, Leaf Hoppers, Aster Beetles, Elm Leaf Beetles, Mexican Bean Beetles, Japanese Beetles, Striped Cucumber Beetles, 12 Spot Cucumber Beetles, 12 Spot Dahlia Beetles, White Flies, Stable Flies, Potato Beetles, Red Spiders, Fern Caterpillars, Cut Worms, Cabbage Loopers, Harlequin Cabbage Bugs, Fall Web Worms, Thrips, Celery Leaf Tier, and many other insects.

1 oz., 35c; ¼ pt., $1.00; 1 pt., $2.00; 1 qt., $3.70; 1 gal. $12.00.

NEW EVER GREEN SPRAY

. . . New Ever Green Spray greatly **simplifies** insect control for home gardeners. It does away with complicated and confusing instructions. Provides you with **one** product that will take care of 95 per cent of the insect troubles in home gardens. It is the most important advance in insecticide manufacturing since the discovery of pyrethrum as a toxic agent.

1 oz. bottles	$ .35
6 oz. bottles	1.00
16 oz. bottles	2.00
1 gallon cans	12.00

ARROW CARBOLINEUM

Formerly **Avenarius Carbolineum**—Made in U.S.A.

PRESERVES WOOD EVERYWHERE

against rot and decay, adding at least 100 per cent to the life of fence posts, poles, sills, floors, bridge timbers, porches and to wood embedded in concrete.

COVERING CAPACITY

350 square feet per gallon on dressed timber.
250 square feet per gallon on rough lumber.
100 square feet per gallon on shingles.

Second coat only requires one-third or one-fourth the quantity for first coat.

KILLS MITES IN POULTRY HOUSES

1-gallon can $1.75 5-gallon can $7.00

DR. HESS FLY CHASER

Drives flies away. One application lasts six hours. Prevents milk slump. Keeps cattle and horses contented during the fly season. Most humane idea of the age. Its use during summer months will insure good profits.

GUARANTEED. 1 gal. $1.50, 5 gals. $7.00.

SEMESAN BEL

FOR SEED POTATOES

Use the quick, easy, time-saving Semesan Bel treatment. Simply mix, dip, drain, dry and the potatoes are ready for planting.

Controls such seed-borne disease organisms as scab, rhizoctonia and black-leg.

By controlling these diseases, germination is generally increased, stand improved and the resultant crop of potatoes is bigger and of better quality. Crop increases of from 10 to 15% are common.

One pound treats 16 to 20 bushels of seed.

4 oz. tin	$ .50	5 lb. tin	8.00
1 lb. tin	1.75	25 lb. pail	31.25

NEW IMPROVED CERESAN

A NEW LOW COST GRAIN DISINFECTANT

Costs only 1⅞ to 2⅓ cents per bushel. Unusually effective in controlling bunt or stinking smut of wheat, covered smut and stripe of barley and oat smuts. Frequently improves the stand and yield of grain 1 to 5 bushels per acre. Easily and quickly applied by 20 revolutions of seed treater or 3 turnings with a shovel. Seed should be treated 24 hours before planting. Does not reduce drilling rate nor damage drill. One pound treats 32 bushels of wheat, oats, or barley.

Prices: 1 lb. tin, 75c; 5 lb. tin, $3.00.

ONE SPOT FLEA KILLER

One Spot is so called because it requires application only on one spot to kill all the fleas on the animal. Place on the skin under the hair.

One Spot is absolutely harmless even if applied all over the animal or eaten by it.

Packages, 1 ounce 25c
Packages, 3 ounce 50c

TRIOGEN The All-Purpose Spray

Controlling Black-Spot, Mildew, Blight, Sucking and Chewing Insects.

(A) Small kit (makes 4 gals.)	$1.50
(B) Medium kit (makes 16 gals.)	4.00
(C) Large kit (makes 32 gals.)	6.00

FUNTROGEN

A liquid spray for the control of Mildew and Black-Spot. Invisible on the foliage and blooms.

½ pt. 75c; pt. $1.25; qt. $2.00; ½ gal. $3.50; gal. $6.00.

TEROGEN

Soil disinfectant, Destroy Insect Pests and Disease before they can attack.

1 lb. 75c 2 lbs. $1.25; 5 lbs. $2.75; 10 lbs. $4.75.

DISINFECTANT DEODORANT ANTISEPTIC

B-K is a powerful non-poisonous germicide with ten times the germ-destroying power of undiluted carbolic acid, yet contains no poison, acid, nor oil. It is fed in drinking water to calves, little pigs and poultry.

It is a powerful solvent of all protein matter such as casein milk solids on utensils, dead tissue, pus and mucus in animal tissue. It penetrates and dissolves these; destroys chemically the germs that cause the trouble, cleans sufaces of utensils; cleans and heals tissues of animals. It is ideal for colds, roup, flu, etc., in birds, and similar diseases acquired through mouths, throats and noses of animals.

10-oz. Bottle	$0.50	1-gal. Bottle	$2.00
1-qt. Bottle	.90	5-gal. Carboy	8.50

B K POWDER

Small Size $0.75 Large Size 1.50

COW-EASE

RELIEVES CATTLE AND HORSES FROM FLIES

¼ gal., 60c; ½ gal., 90c; 1 gal., $1.50; 5 gal., $7.25.

GRADE 1 CREOSOTE OIL

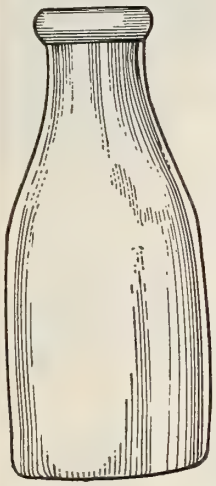
1-Gallon Can $1.00. 5-Gallon Can $4.50.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

REID CORRUGATED MILK COOLER

	Cooling capacity in gals. per hr.	Width of body	Capacity of reservoir	Price
No. 1	45	12 in.	5½ gals.	$31.50
No. 2	55	15 in.	8 gals.	35.00
No. 3	65	18 in.	9 gals.	38.00
No. 4	80	21 in.	11 gals.	43.00

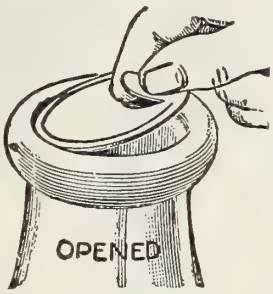
MILK BOTTLES



These bottles are made by a factory devoted especially to bottle making. The glass is clear flint. This makes a bottle that the milk shows up to the best advantage. They are made to stand the rough usage of the street delivery and collection on routes, and washing and sterilizing in the dairy house. These bottles are made with a long neck, and will show a deep cream line.

	Quart	Pint	½ Pint
One dozen	$1.00	$0.75	$0.60
One gross	9.75	7.25	5.85

MILK BOTTLE CAPS

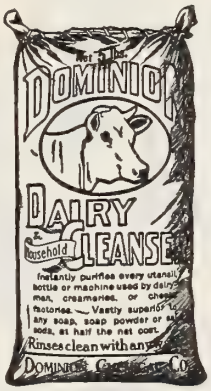


The great convenience of this cap will be appreciated, as it is made with a lift to take the cap out. This prevents spilling the milk, or having to use anything to pry it out.

These caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine.

One thousand $0.75
Five thousand 3.50

DOMINION DAIRY AND HOUSEHOLD CLEANSER



An improved cleanser and purifier for all dairy and household purposes. Just the thing for Churns, Pails and anything used in dairies. For household use, laundry work, all kitchen use, house-cleaning, public buildings, hotels and factories.

Dissolves with greatest ease in either hot or cold water, and rinses off perfectly clean without leaving a soapy scum. **Price:** 5-lb. bag, **35c.**; 25-lb. bag, **$1.50**

"SNOW BALL" FREEZER

Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the sides with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The continuous action of the can and two beaters moving in opposite directions keep the cream ever changing position, producing in about three minutes a very smooth, well-beaten, velvety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar.

Sizes	2-qt.	3-qt.	4-qt.	6-qt.	8-qt.
Retail Prices	$3.30	$4.00	$4.85	$5.95	$7.95

SHARPLES CREAM SEPARATOR

No. 3—350 lbs. per hour	$65.00
No. 4—450 lbs. per hour	75.00
No. 6—650 lbs. per hour	85.00

THE BOSS SEPARATOR

VENTILATING AND AERATING CREAM SEPARATOR

In the **Boss** Dilutors or Water Mixers the milk and water is mixed together or, in other words, the water is poured right into the milk so as to chill it instantly and cause the cream to raise in about one hour.

In ordering a separator of this kind, be sure and order one that will hold twice the amount of milk that you wish to put into it, so as to make allowance for water.

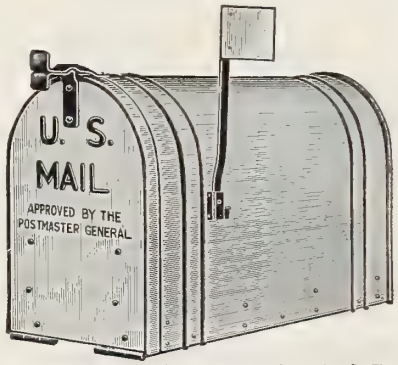
No.—Sizes	Prices
6— 8 gal., holds 4 gals. milk..	$4.80
7—12 gal., holds 6 gals. milk..	5.60
8—16 gal., holds 8 gals. milk..	6.40
9—20 gal., holds 10 gals. milk..	7.20
10—24 gal., holds 12 gals. milk..	8.00

THE BOSS CREAM SEPARATOR

The Boss Cream Separator consists of a water vessel containing one or more milk vessels fastened together with our Patent Can Attachment.

	Height	Width	Weight	
No. 1— 2½ gal. milk vessel	18 in.	13 in.	14 lb.	$ 7.20
No. 2— 4 gal. milk vessel	20 in.	15 in.	17 lb.	8.00
No. 3— 6 gal. milk vessel	22 in.	17 in.	20 lb.	8.80
No. 4— 8 gal. milk vessel	24 in.	18 in.	22 lb.	9.60
No. 5—10 gal. milk vessel	28 in.	18 in.	24 lb.	10.80

THE DESHLER R. F. D.



Top and Sides—Made of No. 20 gauge galvanized steel.
Door—Made of No. 18 gauge galvanized steel, the bottom edge double back upon itself for a distance of three inches. Fits snugly over the curled edge of opening and is weather proof.
Bottom—Made of No. 20 gauge galv. steel.
False Bottom—Made of No. 22 gauge galvanized steel.
Inside Measurements—23⅛ in. long, 13¼ in. high, 11 in. wide.
Weight—350 lbs. per doz., packed in single cartons. **Price $3.00. Smaller Curb Delivery Mail Box $1.25.**

"FROST KING" STEEL FRAME FREEZER

Is a single-motion freezer, and is accordingly sold at a lower price. It is of high-grade construction. The mechanism is very easy to operate, and the can being of the narrow model type makes the freezing very rapid.

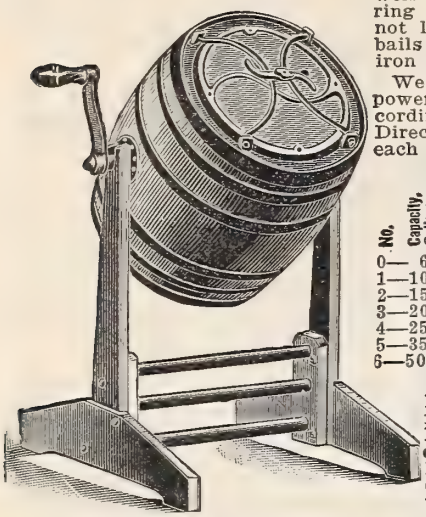
Sizes	4-qt.	6-qt.	8-qt.
Retail Prices	$4.40	$5.50	$7.30

R-C-W 2-Quart Special

Stamped Steel Frame

Price... $1.60 each
Weight 7 lbs. each

Baltimore Favorite Churn



It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The bails are fastened to the iron ring.

We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

No.	Capacity, Gallons	To Churn, Gallons	List Price	Retail Price
0—	6	3	$12.16	$7.60
1—	10	5	13.76	8.60
2—	15	7	15.36	9.60
3—	20	10	18.56	11.60
4—	25	12	22.58	14.10
5—	35	17	25.60	16.00
6—	50	25	48.80	30.50

12-inch Single Pulleys with Trunnions for above. List, **$7.00.** Retail, **$4.25.** Pulley only. List Price, **$4.00.** Retail, **$2.50.** Trunnion only. List, **$3.00.** Retail, **$1.75.**

These Churns can be equipped to run by an Electric Motor. The outfit consists of a 16" grooved pulley and shaft for churn and a 16" grooved pulley and shaft to go on frame and two 62" V. belts less motor. List $24.00 ..... **$15.00**

¼ H. P. Motor is recommended.

Cotton Pads for Sanitary Milk Strainers

These pads are cut round to fit in the strainer and are a necessity in producing clean milk.

They fit the Sanitary Strainer, as listed on page 71.

300 in carton, 6-inch..... **$1.00.** 6½-inch..... **$1.20**

PERFECTION ANTI-COW KICKER

No Chain or Cutting-Edge Parts to Lacerate, Bruise or Blemish the Cow's Leg.

The grapple or hook parts are made from a special size round steel, so shaped and arranged to prevent torturing or injuring the animal's leg.

Price **$1.25**

ASEPTIC MILKING TUBES

FOR COWS WITH SORE TEATS.

Insert one in the teat and the milk will flow.

Self Retaining Tube, 25c.

RICE'S CALF WEANERS

ALSO PREVENTS COWS FROM SUCKING THEMSELVES.

No. 1—For Calves. **Retail Price**..... $ .50

No. 2—For Heifers. **Retail Price**..... .75

No. 3—For Cows. **Retail Price**..... 1.00

SHAW'S CALF WEANERS

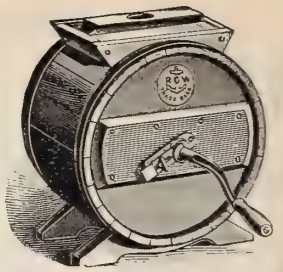
The **SHAW'S CALF WEANER** is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head.

Prices: No. 1, 50c. No. 2, 65c. No. 3, 80c.

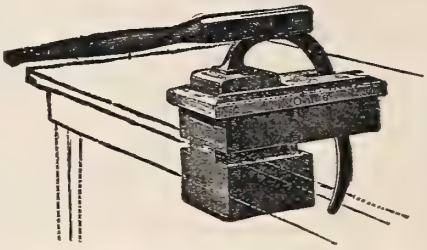
CEDAR CYLINDER CHURN

There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

No. 1— 2¾ gallons..... **$4.00**
No. 2— 4 gallons..... **4.75**
No. 3— 7 gallons..... **5.50**
No. 4—10½ gallons..... **6.25**



LAFAYETTE BUTTER PRINTER

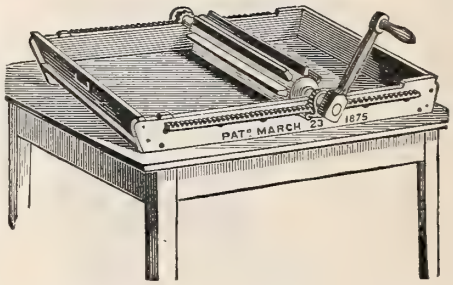


This is also self-gauging. Intended for use in creameries, but more especially for reprinting. Very simple and handy.

Either pound or half pound, with table, **$33.00.**

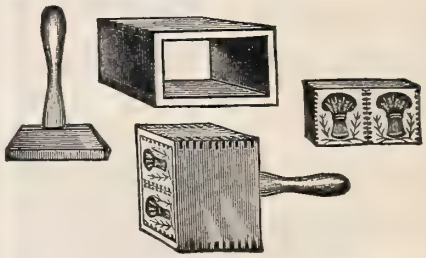
Either pound or half pound, without table, **$15.50.**

Extra for initial or monogram, **$1.50**



REID'S BUTTER WORKER

No.	Inside Measurement	Capacity, Pounds.	Weight, Pounds.	Retail Price.
4—	14x24x2½ in.	10	20	$12.00
3—	17x27x2½ in.	20	25	14.00
2—	20x36x2½ in.	30	29	16.50
1—	23x36x2½ in.	50	45	19.00

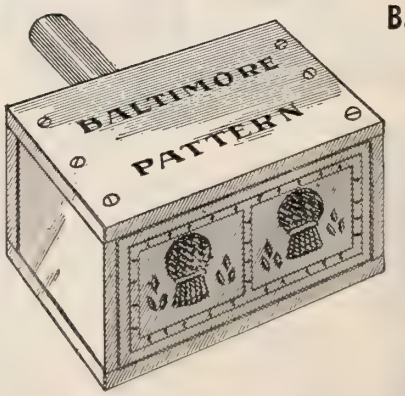


BUTTER MOULD

SEELEY PATTERN

Furnished with Sheaf of Wheat. Movable block.

½ pound.....65c.
1 pound.....85c.



Baltimore Pattern Hand-Made Butter Mould

This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. **½ lb Sheaf of Wheat Print, $1.25; 1 lb. Sheaf of Wheat Print, $1.50. ½ lb. Special Print, Carved with Initial, $2.50; 1 lb. Special Print, Carved with Initial, $2.75.**

PHILADELPHIA PATTERN MOULD

Philadelphia Pattern, ½ pound..... **$2.00**
Philadelphia Pattern, 1 pound..... **2.00**

LADLES AND SPADES

4x12 Butter Spade.....15c. No. 1 Butter Ladle.....25c.

MARYLAND PATTERN MILK CANS

Furnished with our new Umbrella Cover, with seamless rim welded to top. The malleable iron handle on the Cans we stock are stationary, making the Can Handier to handle and Noiseless in shipping.

20-quart ____ $3.50
40-quart ____ 5.00

MILK CANS OR KETTLES

Finest charcoal plate. Seamless cover and neck. Bottom reinforced with steel band. Heavy steel bail. Sanitary soldered. Full capacity.

2-quart ____ $1.15
4-quart ____ 1.25
6-quart ____ 1.40
8-quart ____ 1.60
10-quart ____ 1.80
12-quart ____ 2.00
16-quart ____ 2.35
20-quart ____ 2.55

CREAM PAILS

These pails are made from 5A Charcoal plate, Mirror Finish, are very strong and durable.

We furnish them in two sizes, with or without Gauge or Faucets and with outside lids.

14-Quart Without Gauge and Faucet ____ $0.95
20-Quart Without Gauge and Faucet ____ $1.15
20-Quart With Gauge and Faucet ____ $2.75

DOUBLE BOTTOM CEMENT PAIL

Heavy reinforced Galvanized Cement Pail ____ $1.10

WOODEN STABLE BUCKET

J. I. C. Cedar—Heavy ironbound stable bucket. Each ____ $1.50

WELL BUCKETS

Crown, $1.00

Well Bucket Pulleys

10 in. ____ $0.90
12 in. ____ 1.00

SANITARY FISH MOUTH DAIRY PAIL

Approved and recommended by State Dairy Inspectors. Used exclusively by many large and practical Dairymen. Made from finest charcoal plate. One piece retinned top or hood. Steel Bail. Reinforced Ears. All seams sanitary soldered inside and out.

PLATE IXX. HEAVY CHARCOAL

12-quart ____ $1.50
14-quart ____ 1.60
14-quart Seamless Hood Pail ____ 3.50

DAIRY STRAINER PAIL

Coppered Bail. Natural finish Bail wood. Reinforced ears. Handle near bottom to use when pouring from pail.

IXX. CHARCOAL PLATE

14-quart ____ $1.50

MILK PAILS

These pails are extra heavy block tin, heavy steel bail, coppered. Reinforced ears with two rivets. Should not be confused with cheap tin pails.

12-quart Sanitary Soldered Pails 95c
14-quart Sanitary Soldered Pails $1.00

14-quart Seamless Open Pail ____ $2.70

EXTRA HEAVY IXX. BLOCK TIN

12-quart ____ $0.70 14-quart ____ $0.75

HEAVY PAILS

12-quart ____ $0.45 14-quart ____ $0.50

EXTRA HEAVY GALVANIZED PAILS

Made from extra heavy sheets, heavy steel bail, strong ears, are hot dipped galvanized after making, practically indestructible.

12-quart ____ $0.55
14-quart ____ .65
16-quart ____ 1.10

Heavy Galvanized Pails

12-quart ____ $0.45
14-quart ____ .50

MILK STRAINERS

NEW SANITARY

Milk strainer is made from heavy steel pressed in one piece, has heavy removable perforated steel well tinned discs, between which you use the Sanitary cotton filter pads. This is the heaviest and best sanitary strainer made; 12 quarts. Price ____ $1.40

REGULAR STRAINERS

These milk strainers are made of extra heavy tin and brass wire cloth. They are warranted not to rust.

Prices:

4-qt. ____ $1.00 6-qt. ____ $1.10 10-qt. ____ $1.50

MILK CAN BRUSHES

Made of an excellent grade of durable fibre, very full, with solid backs. Unquestionably the best and most serviceable Milk Can Brushes on the market.

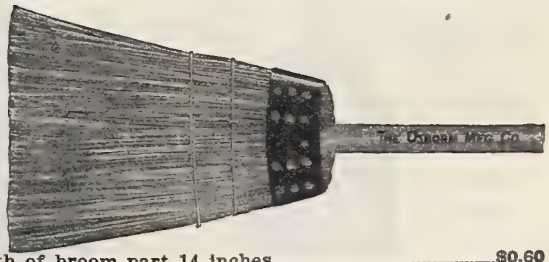
No. 416—Stiff Palmetto, brush part 4x5 inches, each ____ 40c

No. 08—Stiff Palmetto Fibre, length on face 9 inches, width on face 5 inches. Each ____ 50c

STABLE OR PUSH BROOMS

These brooms are of the highest quality. Made with heavy blocks. **No. 2860**—Genuine African Bass, 4 rows ____ 90c

Factory, Warehouse and Railroad Brooms



These brooms are made with heavy steel bands or heads, securely nailed together. By this method of construction it is impossible for the brooms to work loose on the handles. They will last longer and give better service than the ordinary corn broom.

No. 223—Japanese Fibre, length of broom part 14 inches ____ $0.60
No. 221—Japanese Fibre, length of broom part 16 inches ____ .75
No. 200—All-Corn Heavy Warehouse Broom ____ 1.00
No. 211—Corn and Bamboo Broom ____ .90

THE CLIPMASTER

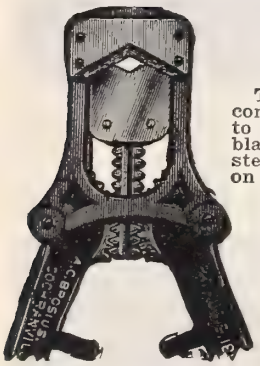
The CLIPMASTER is extremely substantial in construction despite its very light weight. All moving parts are scientifically hardened and tempered. Has enclosed bronze bearings packed in special lubricant, requiring no attention for at least a year. Switch is conveniently located at the back of the clipper. The tension is ball bearing and because of its extreme accuracy, will clip with much lighter tension than any other machine ever developed.

Clipmaster for Horses and Cows **$15.00**
Shearmaster for Sheep **25.00**

THE STEWART NO. 9 BALL-BEARING SHEEP SHEARING MACHINE

Gears are all cut from solid tool steel, are hardened and are enclosed in dust-proof metal box. Has large balance wheel to assist in easy running. Every joint in the shaft and shearing head is fitted with ball-bearings. **Fitted with No. 7 ball-bearing shear, two combs and four cutters. Weight, 50 pounds.**

Price **$22.95**



KEYSTONE DEHORNING CLIPPER

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

Clipper with leader and rope, extra blades and screw, fully warranted.

Our special price **$18.00**

Clipper alone,
our special price **$16.00**

OIL CANS

No. 77— Straight Spout.

Bent Spout.

No. 77—

These oil cans are made from Cold Rolled Steel and have Clock Spring Steel Bottoms.

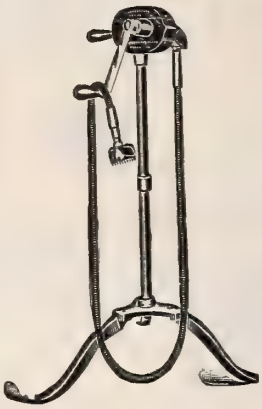
Price, each, 15c

No. 620 — Copperized Steel Mowing Machine Oiler.

No. 620 — Bent or Straight Spout.

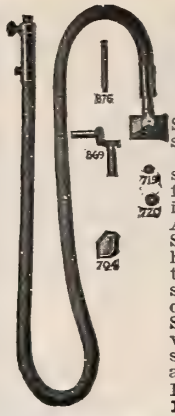
Price, each, 25c

The Stewart No. 1 Ball-Bearing Horse Clipping Machine



A very rigid and very durable machine, weighing, complete, 36 lbs. Gears enclosed in dust-proof metal box are cut from special steel and hardened. Has six-foot, easy running, flexible shaft and famous Stewart clipping head.

Price, complete **$12.50**



Horse Clipping Attachment

Will fit any Stewart Sheep-shearing Machine. Consists of eye spindle and six feet of high quality flexible shaft. Also the famous Stewart clipping head. Can be attached in a few seconds. Owners of a Stewart Shearing Machine who have horses should have this attachment. Packed in box **Price $8.25.**

Sheep-Shearing Attachment

For Use on Our No. 1 and No. 10 Clipper

This attachment consists of complete No. 5 Stewart Shear head, two combs and four cutters, the solid core, universal jointed shaft and cogs, as shown here. Weight, boxed, 15 pounds. Price of complete attachment, as described, **$16.00.**

STEWART No. 11 Improved Grinder Attachment

Attaches to a No. 1 Stewart Horse-Clipping Machine or Stewart No. 8 or No. 9 Sheep-Shearing Machine. Puts a perfect edge on horse-clipping or sheep-shearing knives. Every user of a horse-clipping or sheep-shearing machine should have one. **Price, $6.75.**

HOUSEHOLD LUBRICANT OIL

This very fine oil is put up in small oil cans, ¼-pint sizes, very convenient to use. It is especially adapted for use on sewing machines, lawn mowers, hinges and locks.

¼-pint cans **20c**

G. & T. CO.'S PERFECTION SEPARATOR OIL

This oil is put up expressly for the use of separators, and we recommend it to users of all hand machines, it being a light oil and having a very low cold test.

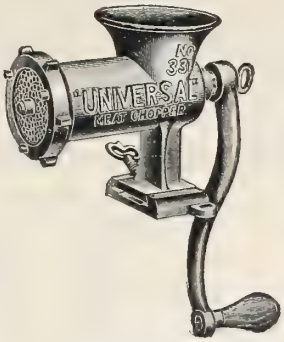
1-quart can	**$0.40**	1-gallon can	**$1.25**
½-gallon can	**.75**	5-gallon can	**5.00**

MICA AXLE GREASE

This is the highest quality of Axle Grease and contains ground mica, which forms a coating on the axle and makes a perfectly smooth surface. After this surface is formed you need use only half as much Mica as of any other axle grease.

Tin Box	**$0.15**	10-lb. Pail	**$1.25**
3-lb. Pail	**.40**	25-lb. Pail	**2.75**

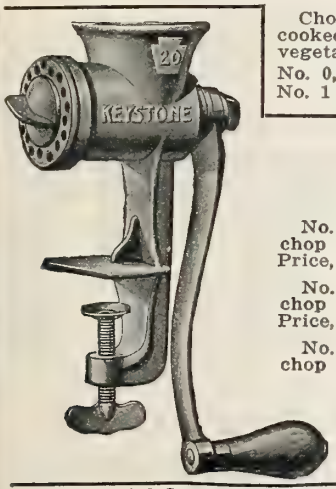
THE UNIVERSAL MEAT CHOPPER



The Universal is the most perfect meat chopper on the market. The feed screw is so constructed that it feeds the meat to the knives without mashing it. The knives work against the plate giving a good clean cut, producing the best grade of chopped meat.

No. 331 ..... $5.00
No. 333 ..... 5.25
No. 304 ..... 8.75
Stuffing Attachment for Nos. 331 and 333 ..... 1.00
Stuffing Attachment for No. 304 ..... 1.15

THE UNIVERSAL FOOD CHOPPER



Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables.

No. 0, small family, 3 cutters $1.65
No. 1 ..... 1.95

KEYSTONE FOOD CHOPPER

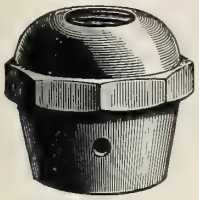
No. 10, weight 3⅝ pounds, will chop 1½ pounds meat per minute. Price, each $1.20

No. 20, weight 4½ pounds, will chop 2 pounds meat per minute. Price, each $1.35

No. 30, weight 6¼ pounds, will chop 3 pounds meat per minute. Price, each $1.80

No. 40 ..... $2.35
No. 45 ..... 2.35
Stuffing attachment for No. 20 or 30 Chooper 85c

OX BALLS

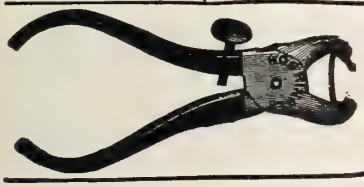


Pair 40c

BULL RINGS

2½-in. Copper Rings ... 45c
3-inch Copper Rings ... 50c
Heavy Bull Ring ... $1.60

Hill's Hog Ringer



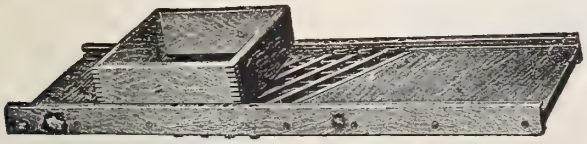
Price 25c

HOG SNOUT CUTTER, Price $2.00
PIG RINGS 20c
SHOAT RINGS 20c
HOG RINGS, box ... 20c

BULL LEADER SNAPS

Price, without pole $1.25

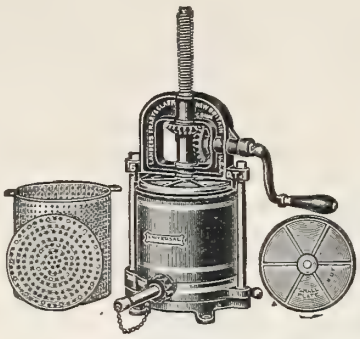
SLIDING KRAUT CUTTER



Sliding Kraut Cutter with Two, Three or Four Knives.

No. 9B—2 Knives, 8x26 inches $1.75
No. 10B—3 Knives, 8x26 inches 2.00
No. 65—3 Knives, 9x30 inches 3.00
No. 80—4 Knives, 13½x40 inches 6.00

UNIVERSAL LARD AND FRUIT PRESS AND SAUSAGE STUFFER

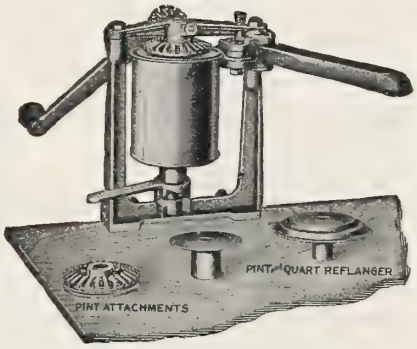


PRICES.

No. 44—4 quarts .. $10.50
No. 66—6 quarts .. 11.50
No. 88—8 quarts .. 12.50

This Machine is an unexcelled **Lard Press,** an equally good **Sausage Stuffer,** and is also extensively used for pressing the juices from fruit for making jelly, etc. **The Universal Press** has many advantages over the old style press. It is **rigid** and **strong,** and is more easily handled because it is lighter.

VIRGINIA HOME CAN SEALER



With this Virginia Home Can Sealer it is as easy and cheaply for you to do just as good canning in your own kitchen as if you had the finest canning plant in the world. In fact, you would have as good equipment only on a small inexpensive scale with the additional advantage of having absolutely fresh-picked products to start with.

Price $18.00

PELOUZE DAIRY SCALE

Graduated by Tenths of a Pound.
GUARANTEED ACCURATE

Made to comply with Departments of Weights and Measures. Large Circular Brass Dial, with distinct, black figures and graduations.

No. D 40—Capacity, 40 lbs $4.75
No. D 60—Capacity, 60 lbs 5.00

MILK BOTTLE BASKET

These baskets are made from the best grade of flat and round steel wire. The welded joints make them the same as one piece, hence all strain and shocks are distributed over the entire body.

6 bottles ..... $1.75 8 bottles $2.00

PARCHMENT BUTTER PAPER

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pound, and 10x15 for two pounds. Price, **25c per pound.** By mail **35c.**

FLOATING GLASS DAIRY THERMOMETERS

Price, **50c** each.

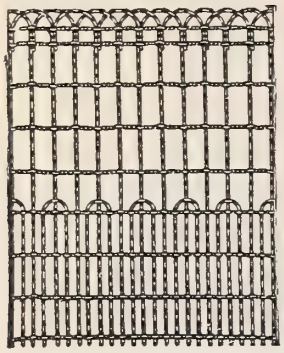
WELL'S & RICHARDSON CO.'S BUTTER COLORING

Put up in four sizes.

Small size to color 500 lbs ..... $ .35
Medium size to color 1,250 lbs ..... .65
Large size to color 2,800 lbs 1.00
Gallon cans 5.00

35c. and **65c.** size by mail add **15c.** for postage and packing.

PERFECTION FABRIC



PAGE LAWN FENCE

Page Lawn Fence is designed especially to protect and beautify your property. It harmonizes with its surroundings and adds dignity and a feeling of privacy to your dwelling. Page Lawn Fence not only protects your property but also affords excellent protection for your children. Its construction is such that there is no foothold for children to climb over and it is dog, cat and chicken proof.

Lawn Fence is made of No. 9 heavy galvanized wire spacing between uprights at the bottom, being 1⅜ inches, and at the top 2⅞ inches; the cables are of heavily galvanized wire, spaced about six inches apart, except the two at top, which are spaced 2¼ inches apart, furnished regularly in rolls of 200 feet. Any length cut to order.

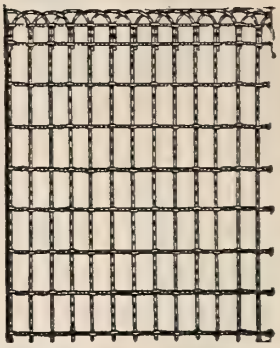
PRICE OF PERFECTION FENCING

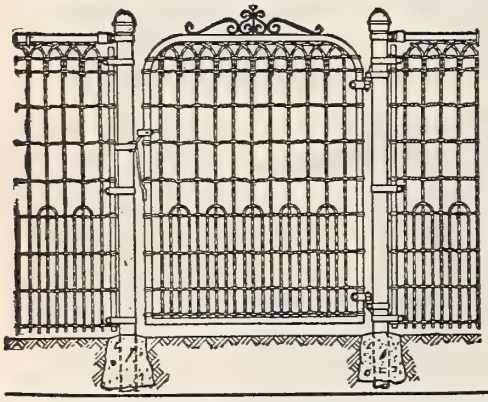
Height	List, Per 100 Ft.	Our Price
36 inches	$19.56	13c
42 inches	21.64	14c
48 inches	24.88	16c

PRICE OF ECONOMY FENCING

Height	List, Per 100 Ft.	Our Price
36 inches	$14.20	9¼c
42 inches	16.04	10¼c
48 inches	17.88	11½c
60 inches	24.38	16c

ECONOMY FABRIC

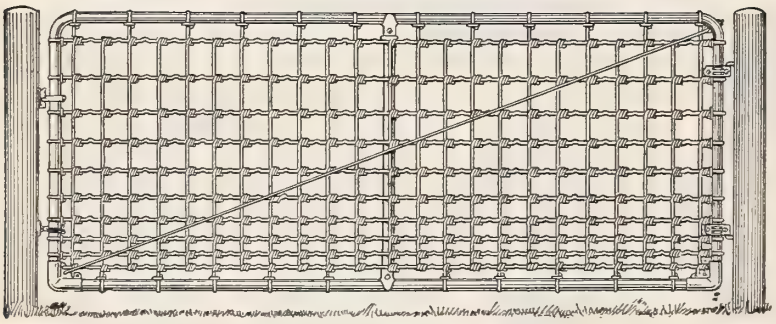




PERFECTION GATES

The frames are made of high-grade heavy steel tubing, and are regularly finished in galvanized frames. Filling of these gates is the regular Perfection Fence Fabric, described at top of page, and as shown by illustrations the gates have ornamental scroll tops. In giving the dimensions of gates, state first the height, and then the width. The width of these gates means the distance between the posts. The factory makes proper allowance for hinges and latch.

WALK GATES				SINGLE DRIVE GATES				DOUBLE DRIVE GATES			
Ht. In.	Width Ft.	Our List Price	Our Special Price	Ht. In.	Width Ft.	Our List Price	Our Special Price	Ht. In.	Width Ft.	Our List Price	Our Special Price
36	3	$4.96	$3.20	36	8	$12.10	$7.60	36	8	$11.84	$7.30
42	3	5.18	3.30	42	8	12.36	7.75	42	8	12.12	7.60
48	3	5.38	3.45	48	8	12.62	7.90	48	8	12.40	7.75
36	3½	5.18	3.30	36	10	14.14	8.85	36	10	13.80	8.65
42	3½	5.38	3.45	42	10	14.44	9.05	42	10	14.08	8.85
48	3½	5.60	3.55	48	10	14.72	9.20	48	10	14.36	9.00
36	4	5.38	3.45	36	12	16.18	10.15	36	12	15.76	9.85
42	4	5.60	3.55	42	12	16.46	10.30	42	12	16.06	10.05
48	4	5.80	3.70	48	12	16.80	10.50	48	12	16.36	10.25



GENERAL PURPOSE FARM GATES

The frame is made from heavy 1¼ inch outside dimension tubing. The wire filling is Heavy Galvanized No. 9 Woven Wire. The frames are Galvanized, and electrically welded at the joints, thus insuring a gate that will not sag or twist out of alignment. In addition the gates are strengthened by internal braces.

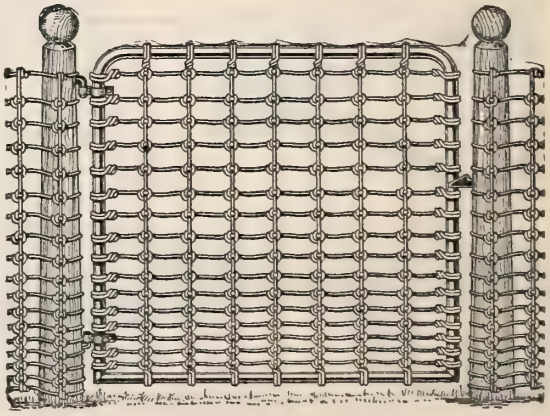
The fabric is actually woven into the frame and not simply tied in with a lace wire.

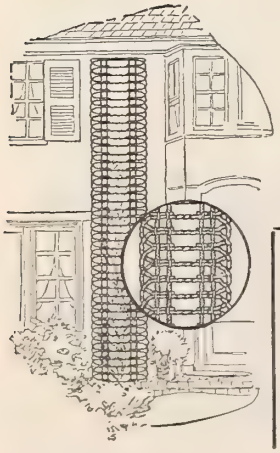
Height	Distance Between Posts 10 Ft.	12 Ft.
48 inches	$8.55	$9.75
54 inches	9.00	10.25

PAGE POULTRY GATE

The gate for poultry enclosures where a small opening is desired. The wires are spaced close enough to hold back the smallest chicks. Frames are of 1/16-inch tubular steel with No. 12½ gauge galvanized filler.

	Distance between posts—3½ ft. List	Retail
48 inches in height	$5.56	$3.50
58 inches in height	6.00	3.75
72 inches in height	8.46	5.30





TRELLIS

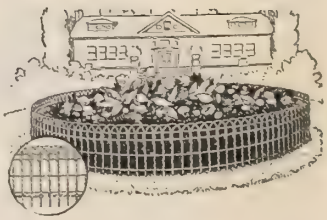
This trellis carries the general style of Perfection Fencing. It is extremely strong, embracing beauty and adaptability. Cut in any length desired.

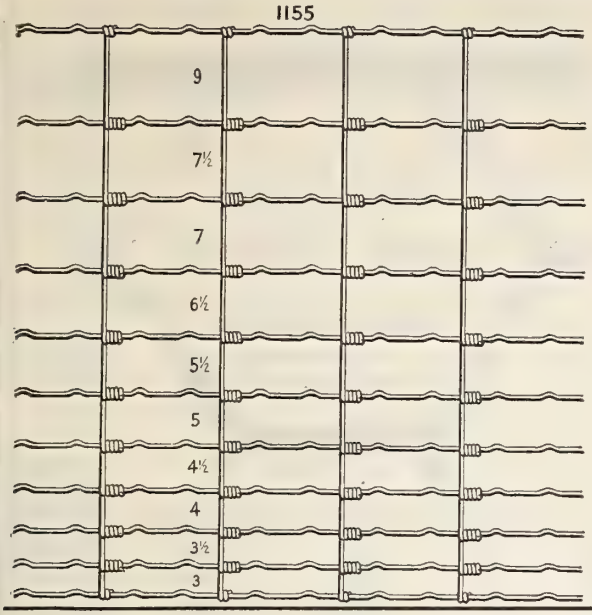
Width	Our List Price	Our Price
18 inches	12c	8c
24 inches	14c	9c

PERFECTION FLOWER-BED GUARD

18 inches and 12 inches above ground. Has 3 cables of two No. 13 wires. Has No. 9 crimped uprights. All heavy galvanized pickets project for insertion in ground. Requires no posts. Can be cut to length to any bed. It provides protection against dogs and chickens.

	Foot
18 inches above ground, our list price	12c
Our special price	8c
12 inches above ground, our list price	10c
Our special price	7c





PAGE GENERAL PURPOSE FENCE

The Name PAGE to Fence is What Sterling Means to Silver

The Page Steel and Wire Company steadily maintains a quality so high that its fence has always been a standard by which good fence is judged. As a result of this policy the first small building has grown into an immense plant covering many acres. Page Fence has been serving its owners honestly and faithfully for many years. To you, Page offers a long-time investment that will pay dividends in service and utility long after ordinary fence has passed into discard.

Style No.	Height in Inches	Approx. Weight Per Rod, Pounds	12-inch Stays, Retail Price, Per Rod	Approx. Weight Per Rod, Pounds	6-inch Stays, Retail Price per Rod
1155	55	12.2	$0.61	16.7	$0.86
1047	47	10.9	.55	14.8	.75
939	39	9.7	.49	13.1	.68
832	32	8.6	.44	11.4	.58
726	26	7.5	.39	9.8	.50

ACTUAL SIZE OF WIRES

Top Bar.....9 Intermediate Bars.....11

Bottom Bar.....9 Stays 11

PAGE POULTRY AND GARDEN FENCE

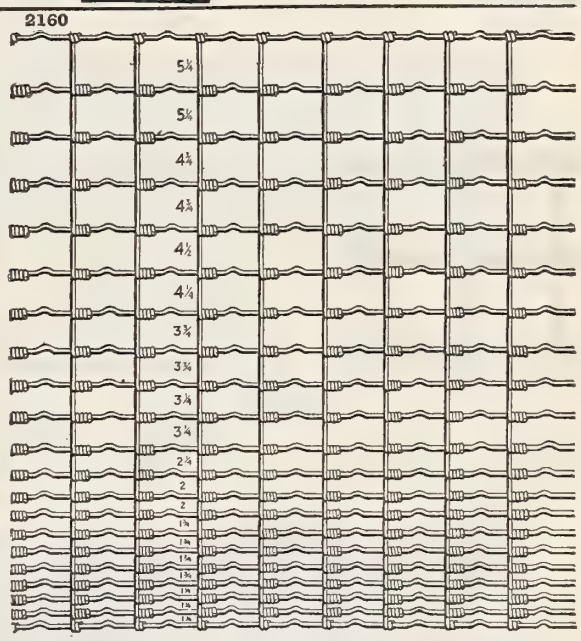
It is an ideal fence against poultry and small animals. The spacing is graduated from 1⅛ inches at the bottom to 5¼ inches at the top, as shown by the illustration and the distance between the stays or uprights is 6 inches. It is a great favorite. Furnished regularly in rolls containing 10 rods or 165 lineal feet.

Style No.	Distance Between Stays	Height, Inches	Approx. Weight per Rod	Retail Price per Rod
2371	6	73	11.4	$0.74
2160	6	58	10.3	.68
1949	6	48	9.2	.62
1635	6	35	7.6	.49

ACTUAL SIZE OF WIRES

Top Wire.....No. 11 Intermediate Wires. No. 14½

Bottom Wire..No. 11 Stay Wires.....No. 14½



CATTLE FENCE

This is an ideal horse and cattle fence and is used largely for division fences. The stays are 12 inches apart, and we do not recommend its use for hogs. The top bar is No. 9, the bottom No. 9, the intermediate bars are No. 11 and the stays are No. 11 wire.

Style Number	Height in Inches	12-inch Stays. Approx. Weight per Rod, Pounds	Retail Price per Rod
949	49	10.3	$0.53
845	45	9.3	.47
635	35	7.2	.38

GALVANIZED STEEL FENCE POSTS

These posts are neat, strong, durable and easy to erect. They will give you much more and better service than can be expected of wood posts because all being alike in size and quality of material, you get benefit of every post in the fence from year to year, while wood posts rot and decay. The line posts are strong enough to hold up any wire fencing, and furnish all necessary resistance. The end and corner posts are so strong that they will maintain any wire fence made.

Nos.	Length in Feet	Approx. Weight in Lbs.	Special Prices Per Post
14½ Line Post	5	7.6	$0.49
14½ Line Post	6	9.1	.59
14½ Line Post	6½	9.8	.63
14½ Line Post	7	10.6	.69
14½ Line Post	8	12.1	.75
Junior End Post	6		1.40
Junior End Post	8		1.85
Junior Corner Post	6		2.05
Junior Corner Post	8		2.75
Ball Top for Posts			.20
Driving Caps for Line Posts			.50

SWEET'S STEEL FENCE POSTS

This Year's Best Seller

A special high carbon steel post of extreme rigidity, for all types of fence construction. The design of these posts is a **flanged leg channel section** which assures maximum strength from an extraordinarily high section modulus. In addition to actual tests for strength to withstand the maximum bending srains of heavy weights and wind loads, these posts are further satisfying a need apparent to engineers, builders, manufacturers and property owners, for:

Superior Strength. Attractive Appearance Maximum Durability Unequalled Economy

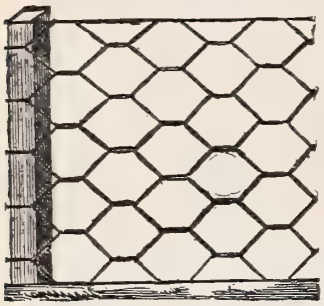
These posts are heartily recommended for use with Field Fences of all types—Poultry, Garden, Arbor, Residences and Estates.

Sweet's Line Post with Ground Plate

Length		Weight	Price
3 ft.	No. 3	4.38 lbs.	$0.18
5 ft	No. 3	6.63 lbs.	.30
6 ft.	No. 3	7.75 lbs.	.35
6½ ft.	No. 3	8.31 lbs.	.40
7 ft.	No. 3	9.13 lbs.	.43
7½ ft.	No. 3	9.69 lbs.	.48
8 ft.	No. 3	10.25 lbs.	.50
9 ft.	No. 3	11.38 lbs.	.60
10 ft.	No. 3	12.50 lbs.	.65
End Posts			
6 ft.	No. 3	19.75 lbs.	1.30
7 ft.	No. 3	22.26 lbs.	1.40
8 ft.	No. 3	24.50 lbs.	1.50
10 ft.	No. 3	29.00 lbs.	1.70
Corner and Two-Way Brace Posts			
6 ft.	No. 3	32.00 lbs.	2.75
7 ft.	No. 3	35.64 lbs.	3.00
8 ft.	No. 3	39.00 lbs.	3.25
10 ft.	No. 3	45.75 lbs.	3.50

DIAMOND MESH POULTRY NETTING

The wire we offer is No. 20, double twist, 2-inch mesh thoroughly galvanized. Sold in bales of 150 running feet.



Galvanized After Weaving

No.	Inches Wide	Sq. Feet	Price Per Bale
20	12	150	**$0.95**
20	18	225	**1.40**
20	24	300	**1.80**
20	36	450	**2.50**
20	48	600	**3.25**
20	60	750	**4.00**
20	72	900	**4.80**

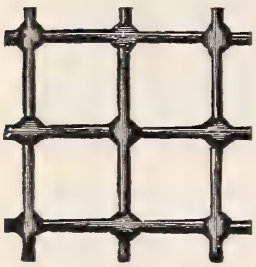
Price **1½c** per square foot in less than bale lots.

Staples for fastening, **10c** per pound.

One Inch Mesh

1-inch Mesh Galvanized after Weaving			Price
No. 20	12 in. wide	150 sq. ft.	**$2.20 per bale**
No. 20	18 in. wide	225 sq. ft.	**3.00 per bale**
No. 20	24 in. wide	300 sq. ft.	**4.00 per bale**
No. 20	36 in. wide	450 sq. ft.	**5.40 per bale**
No. 20	48 in. wide	600 sq. ft.	**7.20 per bale**
No. 20	60 in. wide	750 sq. ft.	**9.00 per bale**
No. 20	72 in. wide	900 sq. ft.	**10.80 per bale**

GALVANIZED STEEL WIRE CLOTH



Made from heavy wire thoroughly galvanized after weaving. This insures long life, as every part of the wire is coated by the dipping process.

Used largely in corn cribs to make them mice and rat proof, also for sieves and fan screens and over windows for protection.

We carry it in stock in widths 2, 2½, 3 and 4 foot.

The word mesh means number of meshes to the inch (2x2, 2 to the inch; 4x4 mesh, 4 to the inch, etc.) Full rolls contain 100 running feet.

PRICE.	Full Rolls.	Less Than Full Rolls.
2x2 Mesh, per sq. ft.	**$0.04¼**	**$0.05**
3x3 Mesh, per sq. ft.	**.04½**	**.05½**
4x4 Mesh, per sq. ft.	**.04¾**	**.06**

"COTTAGE" LAWN AND GARDEN FENCE

Height, inches.	List Price, per rod.	Our Price, per rod.
24	$2.00	$1.00
36	3.00	1.50
48	4.00	2.00
60	5.00	2.50
72	6.00	3.00

GALVANIZED GATE HINGES and LATCHES

No. H1—Walk Gate Hinge Eye	1⅝ in. O. D.	**$0.30**
No. H3—Walk Gate Hinge Eye	1⅛ in. O. D.	**.25**
No. H7—Post Hinge Hook	2 in. O. D.	**.50**
No. H9—Heavy Post Hinge Hook	2½ in. O. D.	**.75**
No. C105—2 Way Latch	2½ in. O. D.	**.75**
No. C102—2 Way Complete Latch	2 in. O. D.	**.50**
Pig Ear Latch	2 in. O. D.	**.80**
Pig Ear Latch	2½ in. O. D.	**.90**
Spring Latch for Walk Gate		**.60**
Spring Latch for Drive Gate		**.65**

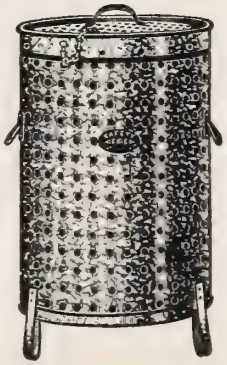
REMOVABLE STEEL CLOTHES-LINE POST

Complete with base $2.75

WIRE STRETCHER

No. 1, price $1.75

Trash Burner or Consumer



The best way to dispose of your waste paper and rubbish is to burn it in a Consumer. Avoids danger and helps to keep the yard and lawn clean from litter.

No. 4—20 in. dia., 33 in. high **$3.75**

No. 3—17 in. dia., 28 in. high **$2.90**

The Improved "Neverslip" Stretcher

The Neverslip Stretcher has no teeth to cut or injure wire. Simple and strong in construction. Made of strong, Malleable Iron and will last a lifetime. One man operates it, and both hands are left to drive staple. Price **$1.60**

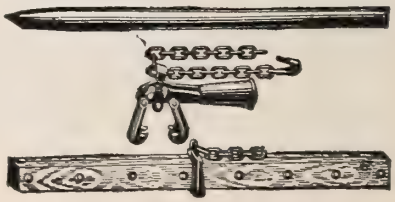
FOLDING CLOTHES DRYER

Steel Post

This is the best folding dryer to be had. Takes up but little space in yard. Spruce arms and post, japanned castings.

13-foot spread—130-foot rope.
Economy Clothes Dryer **$6.00**

LOTT STRETCHER



AM. S. & W. CO.

Clamp Bars made of reinforced half-oval iron to keep wire from slipping.

Lott Stretcher furnished complete except Lever. Use for this purpose an old piece of pipe or lever cut from wood.

Price **$10.00**

BARBED WIRE

Write for Prices

CERTAIN-TEED ROOFING

—guaranteed 5, 10 or 15 years for No. 1, 2 or 3 respectively—backed by the responsibility of the World's greatest and biggest Roofing and Building Mills. The **Certain-teed** label on this Roofing stands for a definite guaranteed service—a protection for you. Why try to save a dollar or two by putting on a cheap Roof that is not guaranteed when you can buy **Certain-teed** for just a little more money and get much longer service on your Roof. In the long run it's less expensive to buy **Certain-teed.**

No. 1, 108 square feet **$1.50**
No. 2, 108 square feet **1.95**
No. 3, 108 square feet **2.35**
No. 4, 108 square feet **2.80**

GUARD ROOFING

GUARD (Special Quality)

This roofing is offered as a good average quality product. It will give good service on the roof. Where the highest quality roofing is not necessary this product is recommended.

No. 1—Light, about 35 lbs., per square **$1.40**
No. 2—Medium, about 45 lbs., per square **1.80**
No. 3—Heavy, about 55 lbs., per square **2.15**

CORPORAL (Competition Quality)

Not a quality product.

Made to meet price competition. Should be sold only where price is the principal consideration.

No. 1—Light, about 35 lbs., per square **$1.30**
No. 2—Medium, about 45 lbs., per square **1.65**
No. 3—Heavy about 55 lbs., per square **2.00**

SLATESURFACED ROLL ROOFING

Certain-teed Extra Quality

BLUE-BLACK, RED, OR GREEN

Weight, 90 lbs., Guaranteed 10 years, per square $2.65

MAJOR REGULAR QUALITY

BLUE-BLACK, RED, OR GREEN

Weight, 80 lbs., Guaranteed 8 Years, per square $2.40

SLATER'S FELT

500 square feet rolls, 30 pounds **$1.20**

INSULATING PAPER

500 square feet rolls, 35 pounds **$2.25**

ASPHALT FELT

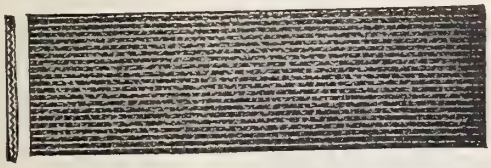
No. 15—Rolls 432 square feet, 65 pounds **$2.55**
No. 30—Rolls 216 square feet, 65 pounds **2.55**

ROSIN SIZE SHEATHING PAPER

In Rolls of 500 Square Feet Each

20-lb. Sheathing Paper, per roll of 500 square feet ..... **$ .65**
30-lb. Sheathing Paper, per roll of 500 square feet **1.00**
40-lb. Sheathing Paper, per roll of 500 square feet **1.30**

Galvanized Steel Corrugated Roofing

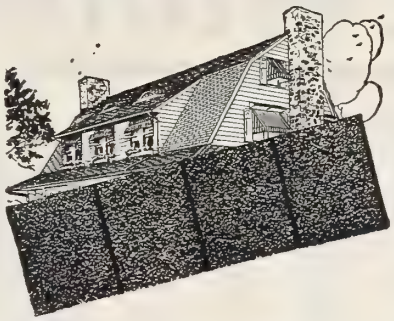


1¼ and 2½-inch corrugations, standard 29 gauge open hearth steel thoroughly galvanized. Made in sheets 26 inches wide; 6, 7, 8, 9 and 10 feet long. 12-foot sheets **25c.** a square extra. Galvanized Ridge Roll, both in corrugated and plain.

No. 28 Gauge, per square **$4.50**
Ridge Roll, Plain, per foot ..... **.08**
Ridge Roll, Corrugated, per foot ..... **.10**

Certain-teed 4-Width Shingle

Blue-Black, Red or Green.



These shingles, when properly laid, offer weather protection in all climates. They are unaffected by atmospheric changes or by heavy rain or snow. Extreme heat or cold will not materially cause them to expand or contract. As an insulator they keep the house cooler in summer and warmer in winter.

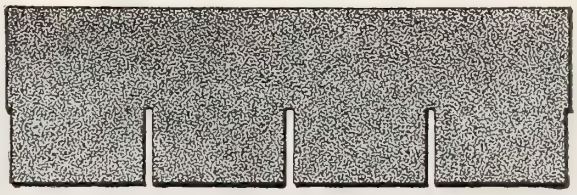
Marked exactly 4 inches from the butt for spacing.

Weight about 196 lbs. Size 10x36 inches. Put up two packages per square.

Guaranteed 10 years; per square **$6.30**

CERTAIN-TEED STRIP SHINGLES

SLATE SURFACED



RED, BLUE BLACK AND GREEN

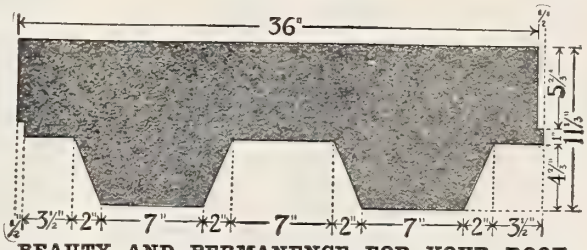
These shingles possess all the durability, attractiveness, weather protection and fire-resisting qualities of the modern asphalt shingle—plus 50 per cent. or more saving in the cost of application, because they can be laid so quickly.

Four shingles laid at a time—no spacing—no chalk line—one-half less nails—one-half less nail holes—four-fifths less cracks—no painting—no repairs.

CERTAINTEED STRIP SHINGLES are water-proofed, with pure refined asphalt. The wearing surface is natural chipped slate in handsome blue-black red and green colors. The colors

Price, per square $6.60

CERTAIN-TEED HEXAGONAL SHINGLES

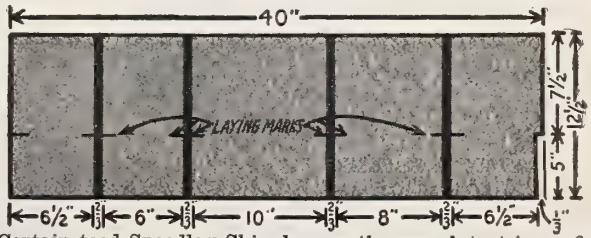


BEAUTY AND PERMANENCE FOR YOUR ROOF

The **Certain-teed** Hexagonal Slab Shingle is a shingle of beauty and permanence. It is made of highest grade, long-fibered felt, heavily saturated with asphalt, and surfaced with a rugged coat of natural colored crushed slate. This surface cannot fade but will always add the same pleasing touch of color to your home.

Price, Blue-Black, Red or Green $5.40
Color-Blend 5.65

CERTAIN-TEED SPEEDLAY SHINGLES



Certain-teed Speedlay Shingles are the very latest in roofing materials—they satisfy every demand of modern roofing, and they are way ahead of any other shingle on the market. Colors—rich in delightful assortments of pleasingly irregular design, adaptable to the taste of any artist, any architect. Self-spacing, with fewer nails used, moderately priced.

12½x40, Weight 200 pounds to square

Red Cast, per square **$6.60**
Green Cast, per square **6.60**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Certain-teed PAINT

HOUSE PAINTS

	Gals.	½ Gals.	Qts.
400 Inside Gloss White	$3.25	$1.70	$0.88
401 Silver Gray	3.05	1.60	.83
402 Gray Tint	3.05	1.60	.83
404 Steel Gray	3.05	1.60	.83
408 Light Slate	3.05	1.60	.83
412 Light Blue	3.05	1.60	.83
414 Blue	3.05	1.60	.83
415 Royal Blue	3.05	1.60	.83
416 Cream	3.05	1.60	.83
418 Colonial Ivory	3.05	1.60	.83
419 Primrose Yellow	3.05	1.60	.83
424 Warm Buff	3.05	1.60	.83
425 Rich Buff	3.05	1.60	.83
431 Crimson Red	3.75	1.96	1.00
434 Golden Brown	3.05	1.60	.83
435 Bungalow Brown	3.05	1.60	.83
437 Brown	3.05	1.60	.83
440 Apple Green	3.05	1.60	.83
441 Nile Green	3.05	1.60	.83
443 Window Blind Green	3.05	1.60	.83
444 Olive Green	3.05	1.60	.83
446 Dark Bronze Green	3.05	1.60	.83
448 Outside White	3.25	1.70	.88
449 Inside White	3.25	1.70	.88

Stain—Varnish

Covering capacity about 500 to 600 sq. ft. per gallon, one coat. Dries dust-free in from 4 to 5 hours and hard overnight.

	Gals.	Qts.	Pts.	½ Pts.	¼ Pts.
30 Ground Color	$2.60	$0.76	$0.43	$0.26	$0.17
31 Mahogany	3.40	.95	.52	.31	.19
32 Light Oak	3.40	.95	.52	.31	.19
33 Dark Oak	3.40	.95	.52	.31	.19
34 Wlanut	3.40	.95	.52	.31	.19
35 Cherry Red	3.40	.95	.52	.31	.19
36 Golden Oak	3.40	.95	.52	.31	.19

Flat Wall Paint

Covering capacity, one coat, about 700 sq. ft. per gallon on smooth plaster, and about 500 to 600 sq. ft. per gallon on rough plaster.

	Gals.	½ Gals.	Qts.
470 Pearl Gray	$2.15	$1.15	$0.62
476 Royal Tan	2.15	1.15	.62
478 French Gray	2.15	1.15	.62
479 Old Rose Tint	2.15	1.15	.62
481 Pea Green	2.15	1.15	.62
485 Pale Green	2.15	1.15	.62
486 Ivory Tint	2.15	1.15	.62
488 Bluff Stone	2.15	1.15	.62
489 Cream	2.15	1.15	.62
494 Pink Tint	2.15	1.15	.62
495 Light Buff	2.15	1.15	.62

Floor, Porch and Deck Enamel

Covering capacity about 250 to 300 square feet per gallon, two coats.

	Gals.	½ Gals.	Qts.
575 Light Gray	$3.00	$1.60	$0.85
579 Medium Lead	3.00	1.60	.85
581 Dark Oak	3.00	1.60	.85
582 Brown	3.00	1.60	.85
583 Dark Mahogany	3.00	1.60	.85
585 Light Oak	3.00	1.60	.85

Certain-teed Asphalt Roof Coating

1-gal. can 62c—5-gal. can $2.35—50-gal. bbl. $18.50

Certain-teed Asbestos Roof Coating

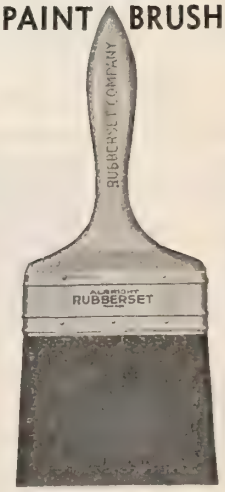
1-gal. can 63c—5-gal. can $2.40—50-gal. bbl. $19.50

Certain-teed Plastic Cement

Leaks in new or old roofs of wood, metal, slate, tile or prepared roofing may be repaired quickly, easily and permanently with Certain-teed Plastic Cement. It is excellent also for flashing around chimneys, metal cornices and skylights; for relining old gutters and metal valleys; and for use at all other points where there are leaks, holes, breaks, or cracks caused by contraction or expansion, or where the material has worn out or broken away.

1-lb. pkgs.	$0.15	25-lb. pkgs.	$1.85
5-lb. pkgs.	.45	50-lb. pkgs.	3.00
10-lb. pkgs.	.80	275-lb. pkgs.	12.70
		450-lb. pkgs.	20.50

PAINT BRUSHES



Quick Drying Enamel

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.	¼ Pts.
814 Orchid	$3.60	$1.85	$0.97	$0.52	$0.32	$0.19
815 Jade Green	3.60	1.85	.97	.52	.32	.19
817 Manchu Red	3.60	1.85	.97	.52	.32	.19
818 Powder Blue	3.60	1.85	.97	.52	.32	.19
819 Lettuce Green	3.60	1.85	.97	.52	.32	.19
820 White	3.60	1.85	.97	.52	.32	.19
821 Creole Ivory	3.60	1.85	.97	.52	.32	.19
822 Cream	3.60	1.85	.97	.52	.32	.19
823 Aut. Yellow	3.60	1.85	.97	.52	.32	.19
824 Tangerine	3.60	1.85	.97	.52	.32	.19
827 Azure	3.60	1.85	.97	.52	.32	.19
828 Coronation Blue	3.60	1.85	.97	.52	.32	.19
829 Sherwood Green	3.60	1.85	.97	.52	.32	.19

Stain—Shingle

	5 Gal Cans Gal.	1 Gal. Cans Gal.
1 Bungalow Brown	$1.30	$1.35
2 Weathered Brown	1.30	1.35
4 Moss Green	1.50	1.55
5 Sylvan Green	1.50	1.55
6 Silver Gray	1.85	1.90
8 White	1.85	1.90
9 Light Green	1.50	1.55

Barn, Bridge and Roof Paint

	5 Gal. Cans Gal.	1 Gal. Cans Gal.
461 Red	$1.45	$1.50
462 Green	1.45	1.50
466 Bright Red	1.65	1.70

VARNISHES

Covering capacity of all varnishes from 600 to 700 square feet per gallon, one coat.

Universal Varnish

Unexcelled for all general interior and exterior purposes. This varnish is a very superior product and gives satisfaction in all its many uses.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
900 Universal Varnish	$4.50	$2.35	$1.25	$0.70	$0.38

Floor Varnish

Dries dust-free in 3 hours, and dry enough overnight to be walked upon.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
911 Floor Varnish	$3.40	$1.80	$0.95	$0.55	$0.31

Interior Spar Varnish

Dries dust-free in about 4 hours, and hard in 18 to 20 hours, rubbed in about 72 hours.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
916 Interior Spar	$3.50	$1.85	$1.00	$0.55	$0.32

Shellac

Pure Shellac, cut in alcohol.

	Gals.	½ Gals.	Qts.	Pts.
931 Orange	$1.75	$1.05	$0.60	$0.35
932 White	2.50	1.35	.80	.43

VARNISH BRUSHES

1 in. Harmony Varnish	$0.15
1½ in. Harmony Varnish	.25
2 in. Harmony Varnish	.30
2 in. Loyal Varnish	.35
2½ in. Loyal Varnish	.45
3 in. Loyal Varnish	.65
No. 1 Stag Varnish	.30
No. 2 Stag Varnish	.40
No. 3 Stag Varnish	.55
No. 4 Stag Varnish	.70
No. 5 Stag Varnish	.90
No. 2 Sash	.15
No. 4 Sash	.20
No. 6 Sash	.30
No. 10 Sash	.50

WALL BRUSHES

3 in. Ching Wan	$0.60
3½ in. Ching Wan	.85
4 in. Ching Wan	1.10
4 in. O. K. Diamond Wall	2.25
4 in. Diamond Wall	2.00

CELEBRATED CROSS-CUT SAWS

Narrow American

5 ft.—Our Special Price	$1.95
5½ ft.—Our Special Price	2.15
6 ft.—Our Special Price	2.30

Narrow Champion

5 ft.—Our Special Price	$1.70
5½ ft.—Our Special Price	1.85
6 ft.—Our Special Price	2.00

Wide Back Saws

WIDE AMERICAN TOOTH		CHAMPION TOOTH	
5 ft.—Our Special Price	$3.00	5 ft.—Our Special Price	$2.65
5½ ft.—Our Special Price	3.30	5½ ft.—Our Special Price	2.90
6 ft.—Our Special Price	3.60	6 ft.—Our Special Price	3.15

Price of Cross-Cut Saw is Without Handle. **Climax Handles, 40c per Pair**

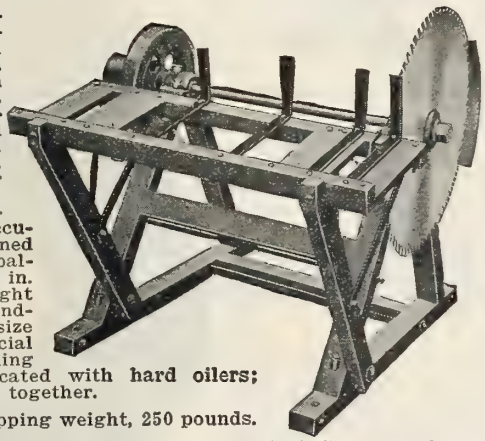
WOOD SAWS

No. 617—Wood brace frame, single rivet, painted red, plain tooth, breasted blade, 2½ inches wide. **Special price $1.25**

No. 523—Wood brace frame, single rivet, selected stock, high finish, painted red, jumbo rod tinned, Tuttle tooth, breasted blade, 2¼ inches wide. **Our special price** **$1.50**

No. 923—Jumbo rod tinned, Tuttle tooth blade, breasted, 2¼ inches wide. Double brace, double riveted. Painted vermilion and varnished. **Our special price** **$1.55**

NO. 700 WITH TILTING TABLE

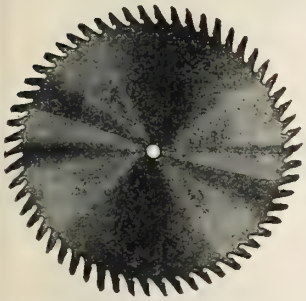


Built specially for sawing poles and cord wood with ease and in fastest time. Mandrel of finest cold rolled steel. $1\frac{7}{16}$ in. diameter, 49 in. long—fitted for saw with 1⅜ in. hole. Flywheel is accurately machined and carefully balanced, 10½ in. diameter, weight 65 pounds. Standard pulley, size 6x6 in. Special Self - Aligning Bearings lubricated with hard oilers; securely bolted together.

Complete shipping weight, 250 pounds.

Without Saw Blade	$25.75	With 26-inch Saw	$30.25
With 22-inch Saw	29.05	With 28-inch Saw	31.00
With 24-inch Saw	29.65	With 30-inch Saw	31.75

GRITCO CIRCULAR SAWS



These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequaled. The prices given are for saws sharpened and set. All blades with 1⅜-inch hole.

	Retail
22-inch, No. 12 gauge	$3.30
24-inch, No. 11 gauge	3.90
26-inch, No. 11 gauge	4.50
28-inch, No. 10 gauge	5.25
30-inch, No. 10 gauge	6.00

CLARK ALL-DAY HEAT UNITS
No Flame—No Smoke—No Odor

PRICES

Per dozen in shipping carton. Shipping weight 6½ pounds. **$1.20.**

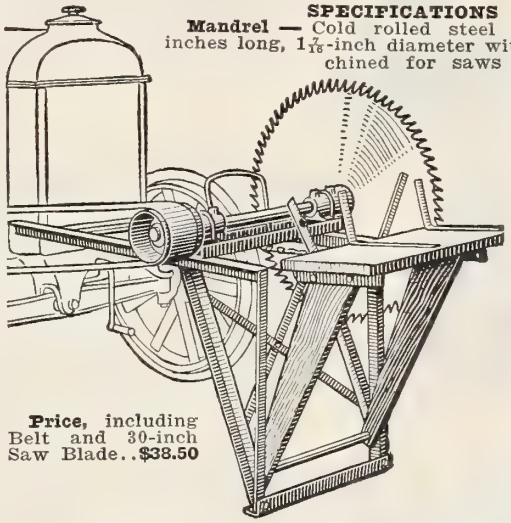
Per gross—12 cartons in wooden shipping case. Shipping weight 98 pounds. **$14.40.**

Clark All-Day Heat Units are 2½ inches wide by 1½ inches thick by 7 inches long.

ONE MAN CROSS-CUT SAW

Champion—3 ft. $2.00, 3½ ft. $2.30, 4 ft. $2.60

FORDSON FARM-ALL AND McCORMICK-DEERING TRACTOR SAWING OUTFIT



SPECIFICATIONS

Mandrel — Cold rolled steel shafting, 36 inches long, $1\frac{7}{16}$-inch diameter with arbor machined for saws having 1⅜-inch hole. The mandrel washers are large and accurately machined.

Bearings—Ball and socket type. Self aligning. Can be adjusted to take up wear.

Pulley — Eight inches in diameter with 6-inch crown face. This pulley was designed especially for use with our Fordson Saw Attachments.

Price, including Belt and 30-inch Saw Blade..**$38.50**

Belt—When specified we furnish a high-grade rubber belt 15 feet 2 inches long, which gives splendid satisfaction. A simple arrangement is provided for tightening belt when necessary.

Blade—When specified we can furnish cordwood blades in any size up to and including 30 inches. They are filed and set, ready for immediate use, and are fully guaranteed. We recommend the 30-inch size, which will be found most satisfactory for average conditions.

SAW MANDRELS

PRICE, $12.00

No. 2 Saw Mandrel—made from finest cold-rolled steel, $1\frac{7}{16}$" diameter, 49 in. long. Furnished with 50 lb. flywheel, 6x6" pulley and is turned for saw with 1⅜" hole.

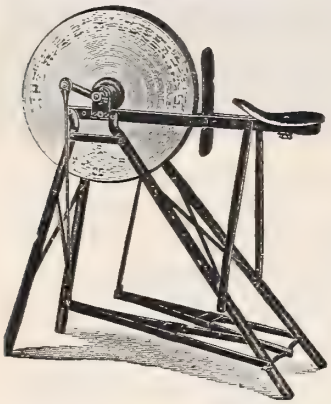
Griffith & Turner Ball-Bearing Grindstone

The G. & T. Ball Bearing Grindstone has a combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles. Stones usually furnished vary in thickness from 1¾ to 2¼ inches. Weight of frame and fixtures only 32 pounds. Shipped knocked down unless ordered otherwise. If crated an additional charge will be made.

No. 1 Stone, 90-110 pounds, each ____ **$9.75**

No. 2 Stone, 70-80 pounds, each ____ **$8.75**

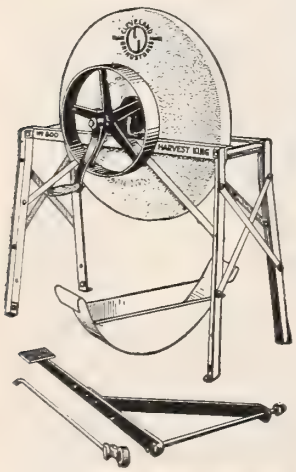
No. 3 Stone, 40-50 pounds, each ____ **$8.00**



GRITCO BALL-BEARING GRINDSTONE

is one of the strongest built, and is practically indestructible, price ____ **$8.75**

HARVEST KING POWER GRINDSTONE



The frame is constructed of heavy angle steel strongly braced. It is equipped with high-grade selected Grindstone 24 in. by 2 in., furnished with 12-in. pulley with 2⅜-in. face, and heavy steel roller bearings, drip cup and hand cranks.

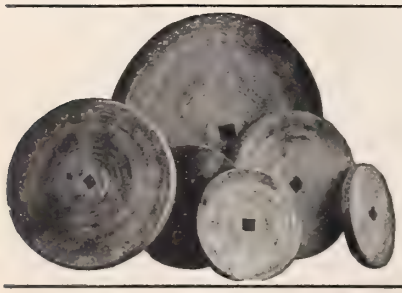
The frame is shipped folded complete, stone crated, to save freight. Weighs about 125 lbs.

Price, regular, which includes 24 in. by 2 in. Stone, 12 in. x 2⅜ in. Pulley, Hand Crank, and Drip Cup..... **$13.50**

EXTRAS

Trough **1.75**

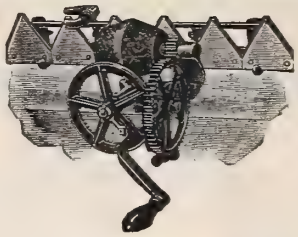
Treadle, Pitman and Bearing **1.75**



LOOSE GRINDSTONES

We carry a full line of loose stones.

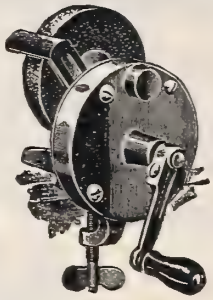
Prices: From 40 lbs. to 200 lbs., per lb. **5c.** Under 40 lbs., per lb., **5½c.** Over 200 lbs., per lb., **6c.**



No. 82 Sickle and Tool Grinder

The No. 82C Grinder is a simple, compact and serviceable hand-power sickle and tool grinder especially suited to farm work. It can be clamped either to a mower wheel or to a bench. The tool wheel is 4¼x1½ inches.

83—With Bevel and Flat Tool Wheel..... **$7.00**
82—With Bevel Wheel..... **6.00**



TOOL GRINDERS

Domestic Kitchen Grinder, with smooth stone for sharpening knives **$2.25**

No. 24—It is equipped with a 4x1-in. Grinding Wheel, and is intended for a Household Grinder. Weighs 6 lbs. boxed. Price **$3.10**

No. 25—It is equipped with a 5x1-in. Grinding Wheel, and will be found a very handy tool for mechanics. Weighs 7 lbs. boxed. Price..... **$3.80**

No. 26—It is equipped with a 6x1-in. Grinding Wheel. Weighs 11 lbs. boxed. Price **$5.10**

ALFALFA BELTING

Alfalfa water-proof belting is a belt woven especially with a view of obtaining great tensile strength. Nothing but the finest long, staple cotton is used.

		Our List Price
2-in., 4-ply, ft.	**$0.46**	**$0.18**
3-in., 4-ply, ft.	**.65**	**.25**
4-in., 4-ply, ft.	**.82**	**.30**
5-in., 5-ply, ft.	**1.28**	**.50**
6-in., 5-ply, ft.	**1.53**	**.60**

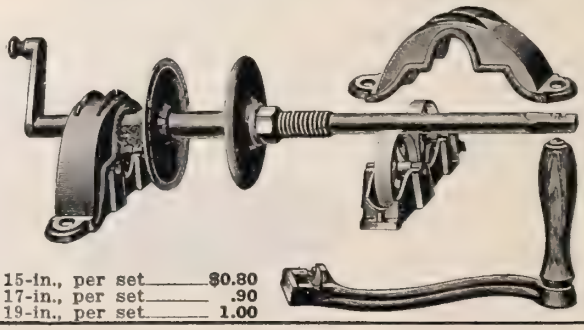
RAW-HIDE BELT LACING

⅜-in., per ft.....3c
½-in., per ft.....4c
⅝-in., per ft.....5c

BALING TIES

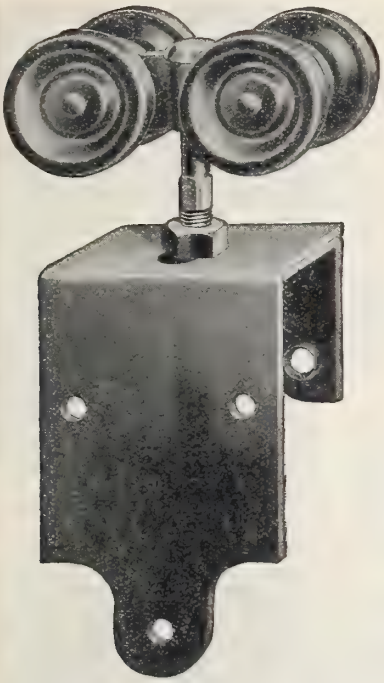
SINGLE LOOP BALE TIES—9½ ft., No. 14 ____ **$1.90**
SINGLE LOOP BALE TIES—9½-ft., No. 15 ____ **1.75**
ANNEALED BALING WIRE—Nos. 11, 12, 13, 14, and 16 always on hand at lowest market prices on application.
Special prices in quantity to Threshermen and Balers.

CAST GRINDSTONE FIXTURES



15-in., per set ____ **$0.80**
17-in., per set ____ **.90**
19-in., per set ____ **1.00**

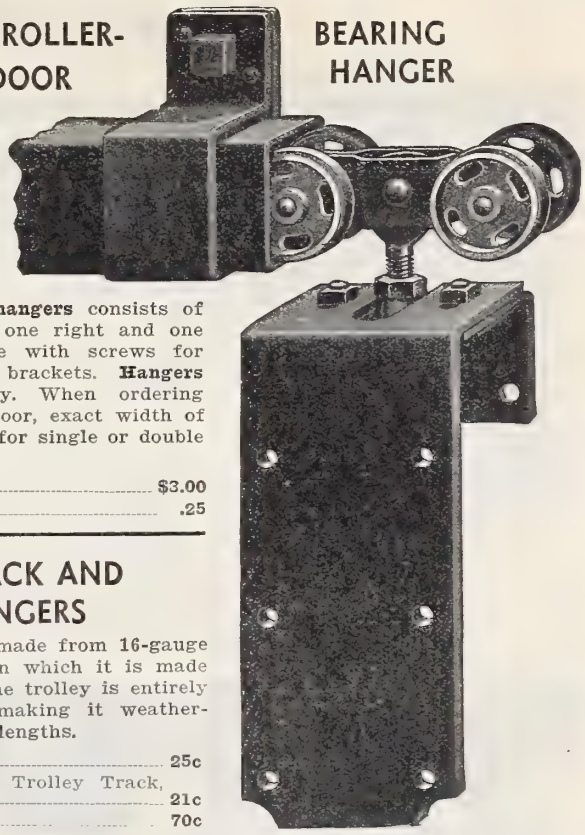
No. 20-2 BARN DOOR HANGER



For doors weighing up to 300 pounds. 2⅛-inch steel wheels, steel roller bearings, 6-inch apron. For doors 1¾ to 2½ inches thick. Packed one pair of hangers with bolts, one joint and two end brackets. Hangers adjustable, vertical and lateral. 8½ pounds per pair.

Price $2.75
No. 31 Track, per foot ..... .25

NO. 25 TROLLEY ROLLER-STEEL BARN DOOR BEARING HANGER



Has two adjustments—vertical and lateral. Has return apron. (See cut). **Pendant** 9 inches long, 3½ in. wide, 3-16 inch thick. **Suitable** for doors 2 to 3 inches thick and weighing from 400 to 600 lbs. Made to run on No. 31 track. **A pair of hangers** consists of two hangers and carriers, one right and one left-hand bracket, complete with screws for hangers and lag screws for brackets. **Hangers and track** sold separately. When ordering always give thickness of door, exact width of opening and state whether for single or double door.

Per Pair $3.00
No. 31 Track, per foot ..... .25

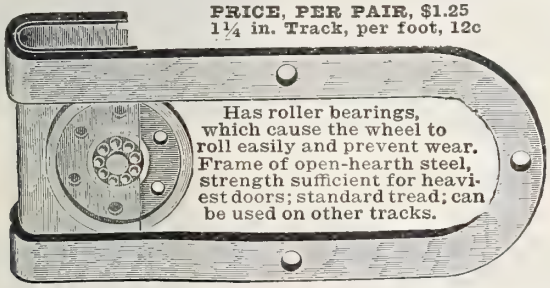
TROLLEY TRACK AND TRACK HANGERS

No. 31 Trolley Track is made from 16-gauge steel. The square shape in which it is made gives it great strength. The trolley is entirely inclosed inside of track, making it weather-proof. 4, 6, 8 and 10-foot lengths.

Per Foot 25c
Extra Single Brackets for Trolley Track, each 21c
Double Brackets, each 70c

ANTI-FRICTION BARN DOOR HANGER No. 2

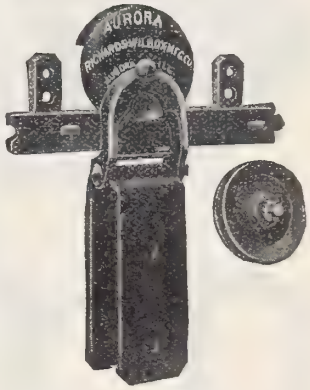
PRICE, PER PAIR, $1.25
1¼ in. Track, per foot, 12c



FLEXIBLE HINGE BARN DOOR HANGER

No. 843.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel, 3-16x1¼ inch, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Weight, dozen pairs, 70 pounds. Weight, track, per 100 feet, 105 pounds. Retail, per pair, **$1.35. Track,** Retail, **12c.**

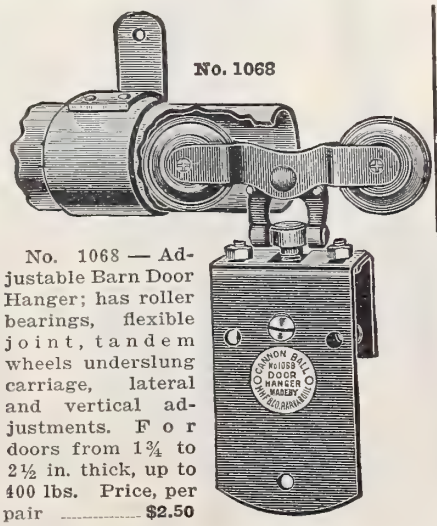


No. 1061—Cannon Ball Jr. Barn Door Hanger, flexible, non-adjusting roller bearing machined wheels, one - piece heavy steel door strap. Price, per pair, **$1.50**

No. 1061

No. 1082—Cannon Ball Jr. Adjustable Barn Door Hanger. Lateral and vertical adjustments, tandem roller bearing machined wheels, heavy one-piece door strap, for doors weighing up to 250 pounds, 2 inches thick. Price, per pair **$1.70**

No. 1068



No. 1068 — Adjustable Barn Door Hanger; has roller bearings, flexible joint, tandem wheels underslung carriage, lateral and vertical adjustments. For doors from 1¾ to 2½ in. thick, up to 400 lbs. Price, per pair **$2.50**

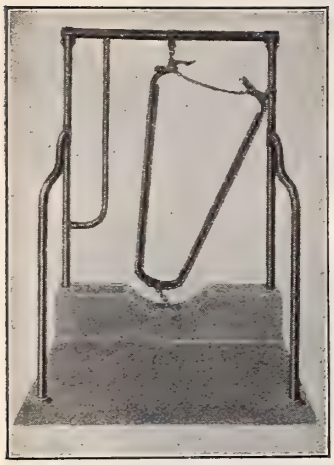
STAY ROLLERS

For use with Barn Door Hangers. Price, each **20c**

Track Brackets not included in price of hangers.

Track Brackets, Joint and Center, each $0.20
Track Brackets End, each ..... .20
Cannon Ball Track, in lengths 3, 4 6 or 8 feet, per foot ..... .24
Cannon Ball Jr. Track, 3, 4, 6 and 8 feet, per foot ..... .17
Jr. Track Brackets, Joint and Center .11
Jr. Track Brackets End ..... .11
Lag Screws for Track Brackets, each ..... .03

HUDSON COW STALLS AND STANCHIONS



2A Stall With 193 Stanchion, $10.50

SPECIFICATIONS

Horizontal Top Rail: 1½ inch square tubing. Non-twisting and absolutely rigid.

Partitions: 1⅝ O. D. high carbon steel tubing, triple bend. Extend backward 3 feet from stall post. Leaves ample room for milkers on platform. Other sizes on special order.

Uprights: 1⅝ O. D. high carbon steel tubing.

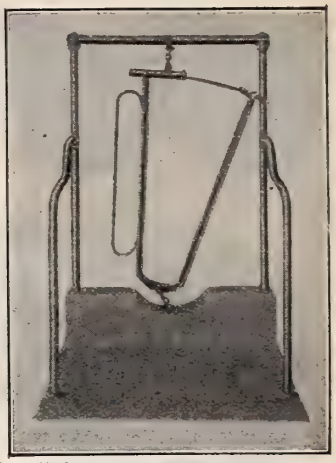
Sure Stop: Rigid, post to top rail type. Can be used on narrow stall without reducing head room; so essential for the cow's comfort. 1 1/16 O. D. high carbon steel tube.

Fittings: Improved dust proof design. Made of malleable.

Anchors: Hudson angle iron anchor base. Anchors post, stanchion, partitions and the entire stall frame into concrete. A continuous anchorage the whole length of stall row across the width of stall at front and rear. Reinforces the concrete and binds the stall frame together down in concrete the same as square top rail binds it above.

Assembly: Hudson labor and money saving method of assembling at factory, made possible only by the Hudson continuous double angle iron anchors, reduces cost of erection and simplifies installation to greatest possible degree. Shipped three stalls set up in unit, ready to place in position on barn floor.

Curb: We recommend high curb, with cut-out for stanchions. Low curb may be used if preferred.



1A Stall With 110S Stanchion, $11.70
1A Stall With 193 Stanchion, $9.55

HUDSON WATER BOWLS

No. 99
STEEL

No. 117 Bowl $2.65

No. 99. Hudson New Steel Water Bowl will not break. The bowl has a greater capacity and is easier handled.

Price $3.00

The No. 500 Stall is shipped knocked down and without the Hudson Angle Anchor System.

Upright, Partition and Top Rail: 1⅝ inch O. D. carbon steel tubing.

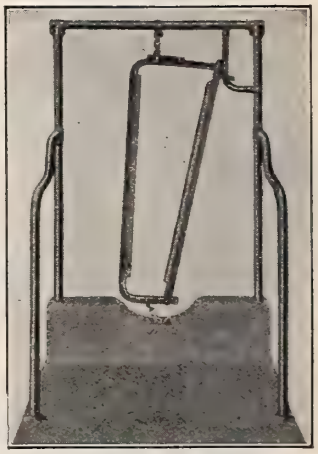
Fittings: Malleable. Tee Couplings two bolt dust-proof type.

Anchors: No. 10B "U" bolt and yoke.

Width: Regular 3 feet 6 inches. Narrower stalls can be furnished when specified.

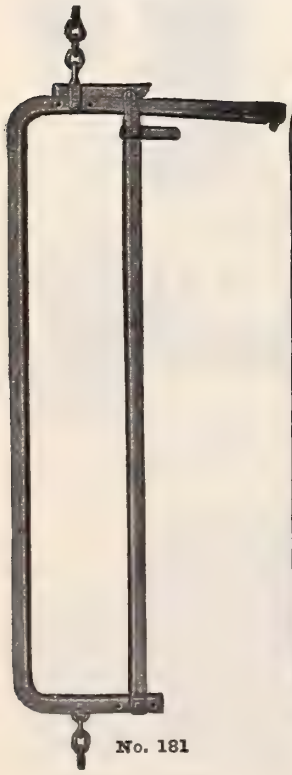
Weight: Complete with Stanchion 52 lbs.

Can be furnished with other Hudson Stanchions at difference in price of stanchions.

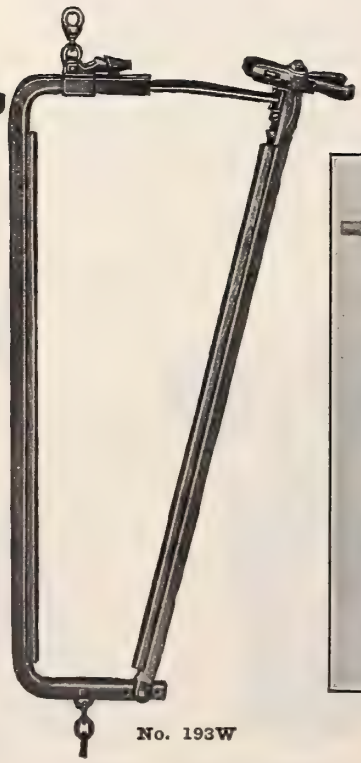


No. 500 Stall With No. 181 Stanchion, $8.00

HUDSON STANCHIONS



No. 181



No. 193W

No. 110
No. 110S

HUDSON STANCHION No. 181

Steel U Bar Stanchion with heavy steel fittings; no castings used. Latch made of pressed steel, protected so the cow can not open it. Weight 18 lbs.

Price $2.40

HUDSON STANCHION No. 193

The new features of this popular stanchion make it unusually desirable. Made of high carbon U-Bar with or without wood linings. Patented, quick-acting latch, double lever type. Cow proof. Adjustable neck space. Will stand rough usage and give years of service.

No. 193W, Wood Lined Stanchion. 20¼ lbs. Each $3.25

No. 193, Plain Steeel Stanchion. 18¾ lbs. Each 2.75

HUDSON STANCHION No. 110

This stanchion is offered to dairymen who want the very best. It is the strongest and most easily operated stanchion ever built. High carbon, rust-resisting steel U bar and certified malleable fittings. Selected Hard Wood Linings thoroughly seasoned and polished.

No. 110 ..... $4.40
No. 110S 4.90

NO. H15 HUDSON AUTOMATIC HOG WATERER

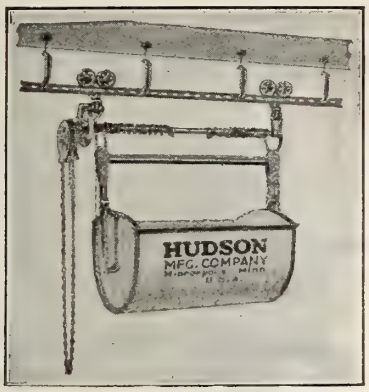
The Hudson Waterer is made so it will attach to a ¾-inch pipe line, water tank or barrel.

No. H15, Wt. each 12 lbs. $2.35

HUDSON FEED AND LITTER CARRIERS

Chain Hoist Litter Carrier

No. 59B



No. 59B Rigid Track

This Hudson Heavy Duty Back Geared Litter Carrier is the result of long years experience in the carrier business. This carrier combines great strength and rapid action. It will carry the heaviest loads with perfect ease. The hoisting chain is of special strength and is of a length to correspond with the shaft on which it winds. Longer chains furnished if specified for special jobs. Carrier is equipped with friction brake. The tub is made of heavy galvanized sheet steel reinforced around the top and ends with 1-inch angle iron closely riveted. The carrier locks at both ends, which increases the life of the carrier. The bale is constructed of 1-inch by 1½-inch channel steel strongly reinforced. The chain shaft is 1 inch cold rolled steel. Full swiveled, tandem trucks which give greater bearing on the track and ease in turning corners.

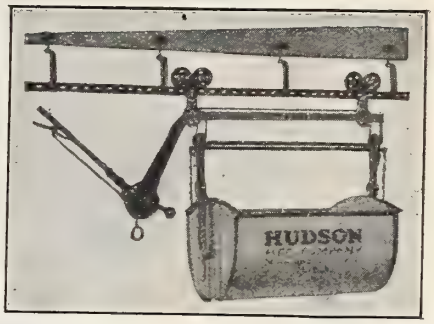
No. 59B—Tub, 42 inches long, 28 inches wide, 24 inches deep, inside measurements, capacity 12 bu. Weight, 182 lbs.

Price **$49.50**

Lever Hoist Litter Carrier

No. 42N

Make a Clean Job Out of a Dirty One



Specifications

Hoist: Ratchet and drum. Very simple. Drops tub to floor in an instant or it can be lowered slowly, as desired. Lifts loaded tub in 10 seconds or less. Tub has regular drop of 8 feet. Extreme leverage and little friction make it quickest and easiest lifting carrier. Hands do not become soiled with manure. Lever is always clean and is used to push carrier out of barn.

Drum: Gray iron, 3¾ inch x 7½ inch diameter.

Lifting Cable: Best crucible steel, ¼ inch diameter.

Lift Cable Pulleys: Gray iron, 4½ inch diameter, grooved and machined to prevent wear on cable.

Lever and Hoist Frame: 2 inch x ¼ inch steel bars, which support the drum and sheaves or cable pulleys.

Tub: Hudson long service construction, channel bail reinforcement.

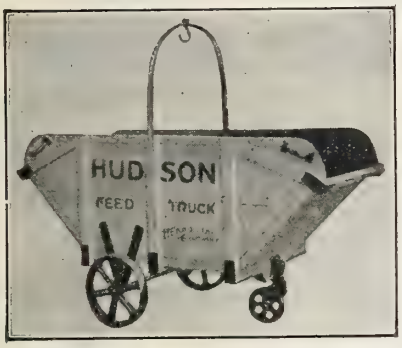
Track Wheels: Roller Bearings, 6-inch diameter.

No. 42N: Capacity 12 bushels. Size of tub 42x28x24 inches. Weight, 205 lbs.

Price **$55.00**

FLOOR FEED TRUCK

No. 141



This is a very convenient and durable truck, built of selected lumber well put together and strongly reinforced.

Load is evenly balanced on wheels, making truck easy to handle. Wheels are located so that truck may be turned in its own length.

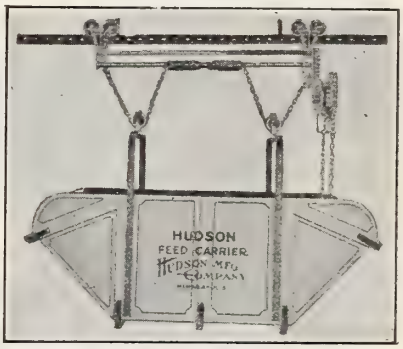
Main wheels are fourteen inches high with a two inch face. Castor wheel is seven inches in diameter. Axle is one inch cold rolled steel shafting. Capacity sixteen bushels.

This truck can be furnished with or without the Hudson Scale Arch.

No. 141 Hudson Floor Feed Truck, galvanized steel bottom. **Weight, 210 pounds. Price, $40.00.**

FEED CARRIER

No. 40C



The Hudson Raising and Lowering Feed Carrier has all the track operating features found in our celebrated line of litter carriers, and is furnished with a tub or a carrier box, that is made of selected materials, and shaped so that the operator can work from either end when feeding.

Equipment can be furnished for the installation of a system of trackage in connection with the litter carrier system.

Capacity, 16 bushels. Weight, 225 pounds. **Price, $52.00.**

HUDSON MILK STOOLS

No. 96S

Hudson Milk Stools have proven extremely popular, not only for milking but for many uses around the home, in garages, filling stations, camps, offices and stores.

Pressed steel top. Comfortable for milking and will not tip. Legs high carbon steel, strongly reinforced and braced; will not twist.

Weight: Approximately four pounds.

Price ..... **$1.00.**

HUDSON TRACK EQUIPMENT

No. 102—Track, per foot	$0.18
No. 90C—Track Hangers with short extension and Nailing Plate	.37
No. 90B—Hangers, to clear 4 inch, each	.37
No. 90F—Hangers, to clear 8 inch, each	.42
No. 90L—Hangers, to clear 12 inch, each	.48
No. 90P—Hangers, to clear 16 inch, each	.52
No. 262—Two Way Switch	10.00
No. 263—Three Way Switch	12.00

SAFETY BULL STAFF

Contsructed of 1-1/16 inch O. D. extra heavy steel tubing with malleable lock hook. Will not break even when subjected to severe strain.

Can be operated from two places. To hook the nose ring into the staff, pull on the slide ring near the head of staff which will open lock bolt. To release staff from the bull ring, pull on the snap ring in handle of the staff. Latch bolt held in place by strong spring.

Length, 4 feet 9 inches. Weight, 8 pounds. **Price, $3.50.**

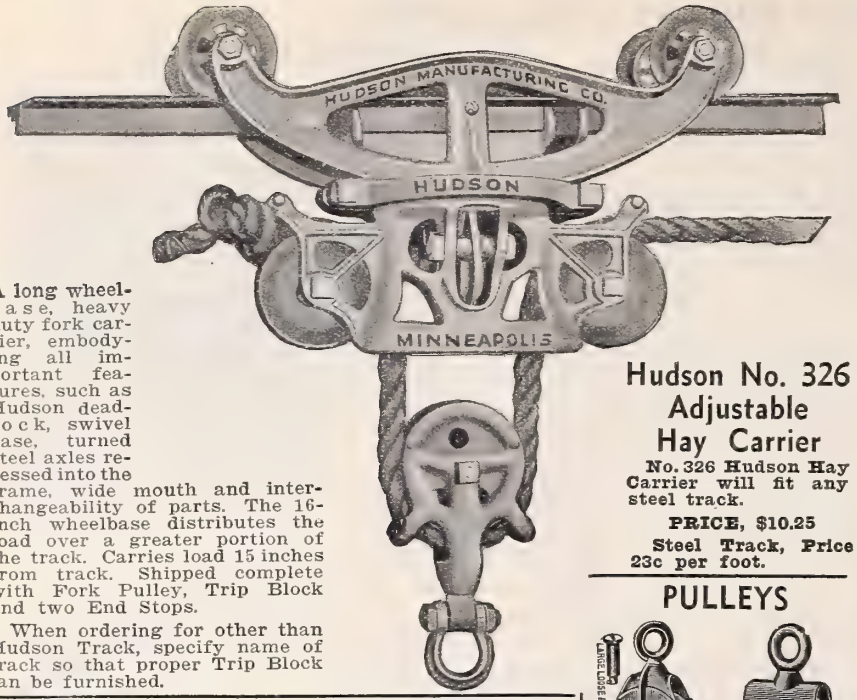
SALT AND MINERAL BOWL

The Hudson Salt and Mineral Feeder is attractive in design, easy to clean and strongly built. The rust-proof cup is made of glazed stoneware; the unique supporting bracket is malleable iron guaranteed against breakage. The rim of the cup extends inward so that the salt will not be wasted. The opening in the cup is 4⅝ inches or just large enough to permit the animal to lick the salt. This small opening eliminates excessive slobbering and drooling, which reduces the caking of the salt. Furnished for either wood or steel stall.

Weight, 10 pounds. Packed one in carton. **Price, $1.00**

HUDSON SANITARY PENS

For Cows, Calves and Bulls. Write for prices, giving sketch and size of Pens needed.



A long wheelbase, heavy duty fork carrier, embodying all important features, such as Hudson deadlock, swivel base, turned steel axles recessed into the frame, wide mouth and interchangeability of parts. The 16-inch wheelbase distributes the load over a greater portion of the track. Carries load 15 inches from track. Shipped complete with Fork Pulley, Trip Block and two End Stops.

When ordering for other than Hudson Track, specify name of track so that proper Trip Block can be furnished.

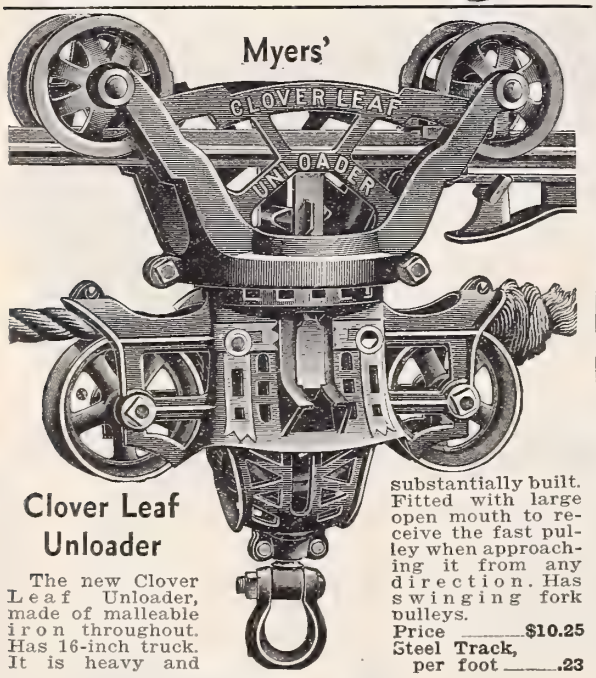
Hudson No. 326 Adjustable Hay Carrier

No. 326 Hudson Hay Carrier will fit any steel track.

PRICE, $10.25

Steel Track, Price 23c per foot.

Myers' Clover Leaf Unloader



The new Clover Leaf Unloader, made of malleable iron throughout. Has 16-inch truck. It is heavy and substantially built. Fitted with large open mouth to receive the fast pulley when approaching it from any direction. Has swinging fork pulleys.

Price $10.25
Steel Track, per foot ..... .23

PULLEYS

No. 9

No. 10

No. 11

No. 12

No. 9 Maple Sheave 65c
No. 10 All Iron 55c
No. 11 Knot Passing 70c
No. 12 Wood Frame with Hook 65c
No. 13 Wood Frame with Eye 65c

Rafter Brackets

G. & T. No. 4

No. 4—Rafter Bracket, steel, retail, each 9c

G. & T. No. 14
SWIVEL ROPE HITCH

No. 14—Swivel Rope Hitch. **Retail, each, 40c.**

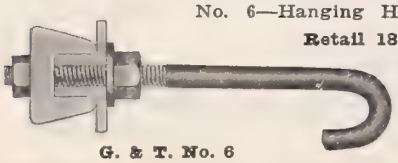
IRON-STRAPPED BLOCKS

Patent Roller Bushed

Size of Sheave Inches	Diam. Rope Inches	Lgth. Shell Inches	Retail Price Single	Retail Price Double
3½x1 x½	¾	6	$1.20	$2.28
4¼x1 x½	⅞	7	1.36	2.68
4¾x1⅛x⅝	1	8	1.80	3.32

HUDSON TRACK HANGERS

No. 6—Hanging Hook, steel track. **Retail 18c each.**



G. & T. No. 6

MYERS' TRACK HANGERS

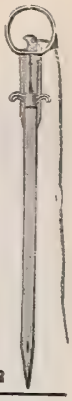
Price, 18c.

HARPOON HAY FORK

G. & T. No. 1

No. 1 — Double Harpoon Hay Fork, 25-in. tines. **Retail, $2.50.**

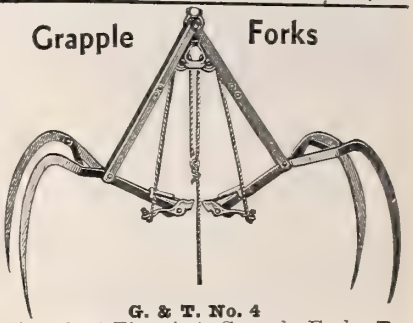
No. 1½—Double Harpoon Hay Fork, 31-in. tines. **Retail, $2.75.**



No. 2

No. 2—Nellis Single Harpoon Fork. **Retail, $5.00.**

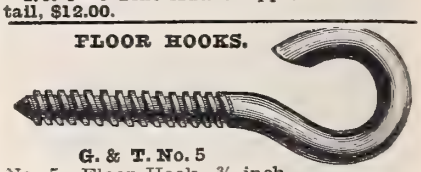
Grapple Forks



G. & T. No. 4

No. 4—4-Tine Aut. Grapple Fork. **Retail, $10.50.**
No. 6—6-Tine Aut. Grapple Fork. **Retail, $12.00.**

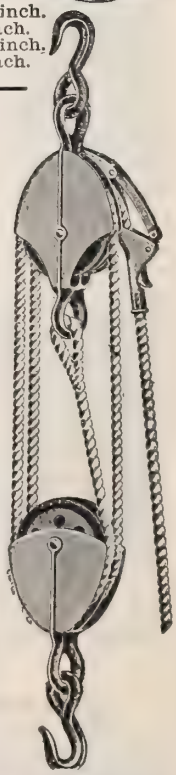
FLOOR HOOKS.



G. & T. No. 5

No. 5—Floor Hook, ¾-inch. **Retail Price, 18c. each.**
No. 5—Floor Hook, ⅝-inch. **Retail Price, 15c. each.**

GRITCO HOIST



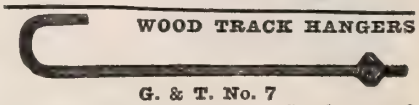
No. 40 — 2 sheaves above, 2 sheaves below; for ½-inch rope; capacity, 1500 lbs. One man can lift 400 lbs. 3-inch sheaves. **Factory list, $4.00. Our Special Price, $3.00.**

No. 34 — 2 sheaves above, 2 sheaves below; for ½ inch to ⅝ inch rope; capacity, 3000 pounds. One man can lift 500 pounds 4-inch sheaves. **Factory list, $6.00. Our Special Price, $4.50.**

No. 28—2 sheaves above, 2 sheaves below; for ¾-inch to ⅞-inch rope; capacity, 4000 pounds. One man can lift 600 pounds 5-inch sheaves. **Factory list, $10.00. Our Special Price, $7.00.**

Rope not included in price.

WOOD TRACK HANGERS



G. & T. No. 7

No. 7—14-in. Hanging Hook, wood track. **18c each.**

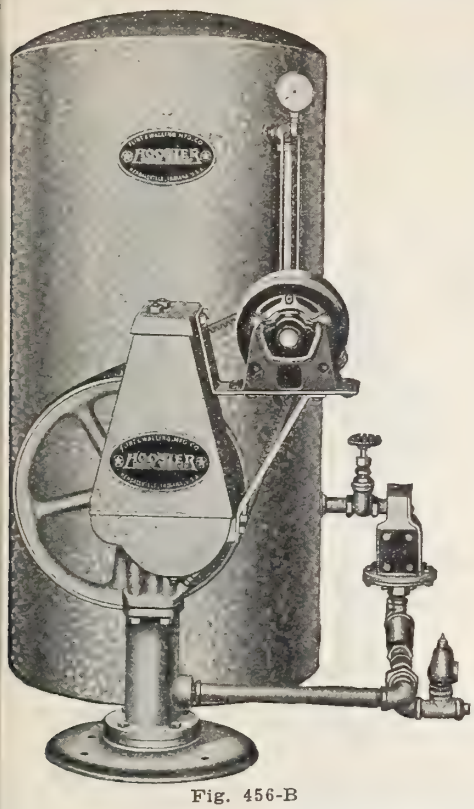


Fig. 456-B

HOOSIER WATER SUPPLY SYSTEM

¼ H. P. Hoosier Water Service—Using Hoosier Galvazink Well Pump Fig. 455

We recommend the use of this installation on wells where depth to water is not more than 50 feet.

The complete installation consists of Fig. 455 Hoosier Galvazink Deep Well Pump complete with V-belt and refrigerator type ¼ H. P. motor, Hoosier Galvazinked water supply tank, Fig. 1351 Automatic Controller, combined pressure and water gauge, gate valve, relief valve, silent check valve, and necessary fittings to connect pump and tank as shown.

Frost-proofing attachment for protection against damage by freezing, is supplied at a small additional charge.

Pumping cylinder and well pipe are not included as part of this installation.

Figure	Motor	Capacity of Tank	Weight	Price
456	¼ H. P.	33 gallons	290	$98.50
456-A	¼ H. P.	66 gallons	370	102.25
456-B	¼ H. P.	100 gallons	415	106.50
Fig. 455 Pump only with Motor				70.75
Frost Proofing Attachment				5.75

½ H. P. Hoosier Water Serice—Using Hoosier Galvazink Deep Well Pump Fig. 460

This Hoosier water service installation, Fig. 461-G, is recommended for use where depth to water is not more than 80 feet. Fig. 460, Hoosier Galvazink Deep Well Pump, completely galvanized and self-lubricating, is supplied with this outfit. This pump is equipped with V-belt.

Figure	Motor	Capacity of Tank	Weight	Price
461-A	½ H. P. A. C.	33 gallons	395	$131.00
461-F	½ H. P. A. C.	66 gallons	475	133.75
461-G	½ H. P. A. C.	100 gallons	520	137.75
Fig. 4611 Pump only with ½ H. P. Motor				100.50
Frost Proofing Attachment				5.75

The Hoosier Horizontal Double Acting Power Pump

A compact high-grade double acting horizontal pump for pumping from shallow wells to pneumatic water supply systems.

Tapped Inlet	Tapped Outlet
No. 1 1¼	1 in.
No. 2 1½	1¼ in.
No. 4 2½	2½ in.

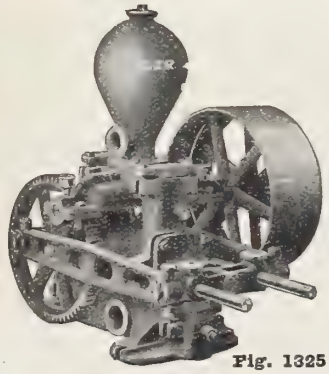


Fig. 1325

Fig.	Cylinder	Capacity	Price
1325 No. 1	2½x4	510 gal.	$45.00
1325 No. 2	3x5	850 gal.	80.00

ROUND-END GALVANIZED TANKS

No.	Width, Ft.	Height, Ft.	Length, Ft.	Capacity, Gals.	Weight, Lbs.	Retail
RE 224	2	2	4	91	74	$10.00
RE 225	2	2	5	117	88	12.00
RE 226	2	2	6	144	102	14.00
RE2525	2½	2	5	145	93	13.25
RE2526	2½	2	6	178	110	15.50
RE2528	2½	2	8	245	141	19.85

ROUND GALVANIZED TANKS

No.	Diam., Ft.	Height, Ft.	Capacity, Gals.	Weight, Lbs.	Retail
R32	3	2	91	69	$12.00
S43	4	3	240	115	19.75
S44	4	4	310	145	24.00

HOOSIER WATER SERVICE INSTALLATION

USING SERIES 200 HOOSIER GALVAZINK TWIN PUMP

For use where vertical suction is not more than 22 ft. Capacity, 300 gallons an hour. May be had with 33, 66 or 100 gal. all-galvanized tank. Complete installation includes Series 200 pump complete with ¼ H. P. motor, V-belt, controller, vacuum chamber, pressure tank, floor base, gate valve, relief valve, combined pressure and water gauge, and fittings for connecting pump and tank, as illustrated.

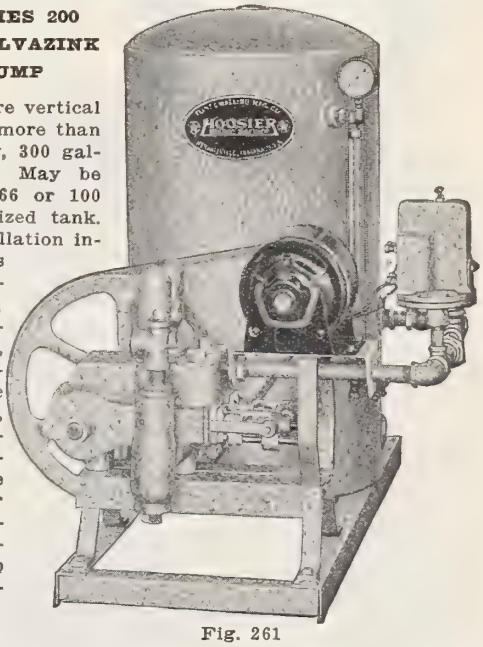


Fig. 261

Figure	Motor	Capacity of Tank	Wt.	Price
231	¼ H. P. A. C.	33 gallons	280	$102.25
261	¼ H. P. A. C.	66 gallons	347	106.00
291	¼ H. P. A. C.	100 gallons	392	110.00

Series 200 Two Cylinders and pump only with A. C. ¼ H. P. motor and controller $81.50

The above outfits have double cylinder pumps as shown in cuts.

Figure	Motor	Capacity of Tank	Wt.	Price
131	1/6 H. P. A. C.	33 gallons	244	$80.00
161	1/6 H. P. A. C.	66 gallons	311	83.50
191	1/6 H. P. A. C.	100 gallons	356	88.50

Series 100 Pump with motor and controller 59.50

These outfits have Series 100 Pumps which are single cylinder.

Hoosier Automatic Pressure Controller

Fig. 1351—Automatic Pressure Controller is used for automatically controlling electric driven power pumps. It can be adjusted for any pressure up to 75 pounds and for a variation of 20 pounds. For domestic purposes, it is best to have it cut in and out at 30 to 50 pounds, respectively.

OUR SPECIAL PRICE $8.00

GALVANIZED PRESSURE TANKS

33-Gallon Galvanized Tank	$11.00
66-Gallon Galvanized Tank	15.00
100-Gallon Galvanized Tank	20.00

HOOSIER WELL PUMPS

Fig. 79041

Fig. 7994

Fig. 73974

Fig. 8553

Fig. 1050

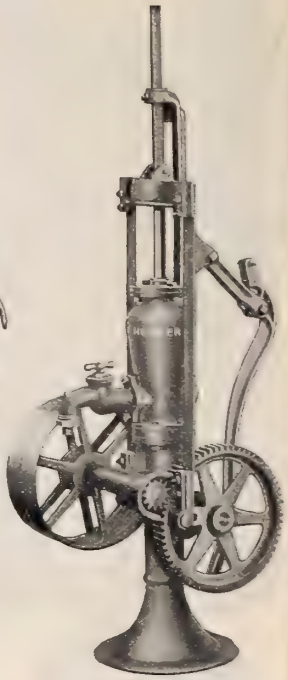


Fig. 1038

Fig. 79041.—Hoosier Open Top Hand Lift Pump, with wrought set length. It has large cast head, swivel bearer top, long handle and adjustable. The Standard or Barrel is made of 1½ inch pipe, and has the anti-freezing feature. 3-inch iron cylinder. **Price, $9.25.**

Fig. 7994.—Hoosier Hand Force Pump, wrought set length, anti-freezing, has swivel bearer top, polished steel piston rod, brass stuffing box, compression cock spout and back inlet. Standard is tapped for pipe just below spout, and with the usual drip hole directly above cylinder makes the pump anti-freezing. Fitted with 3 inch brass lined cylinder. **Price, $14.50.**

Fig. 73974.—Hoosier Windmill Force Pump, wrought set length, anti-freezing; has detachable polished piston rod, brass stuffing box, swivel bearer top, back outlet and detachable compression cock spout. The bearer top has removable guide bushing to prevent pump rod wearing directly on bearer guide. 2½ inch Brass Lined Cylinder, 6 inch stroke, weighs 81 pounds. **Price, $19.25.**

Fig. 8553.—Hoosier Windmill Underground Force Pump, double acting, with wrought set length, anti-freezing. The pump has brass upper cylinder, positive three-way cock with union connection. Has adjustable platform base, fitted with 1 inch goose neck spout, and 1 inch three-way discharge. By removing upper cylinder and cap, the plunger valve can be withdrawn without disturbing the pump. Suitable for well from 25 to 125 feet in depth. Without Cylinder. **Price, $18.55.**

Fig. 1050.—Hoosier Combination Set Length Pump and Jack. For hand, windmill or belt power. For shallow or deep wells. In this pump you get a true alignment of the jack and pump, with no side strain or uneven wear on the parts. Has cast gears and strong pitmans. Tight and loose pulleys. By removing upper cylinder and cap the plunger valve can be withdrawn without disturbing the pump. Can be used with 1¼, 1½, 2, 2½ or 3-inch pipe. **Price, $40.50.**

Fig. 1038.—Hoosier Combination Pump Standard and Jack. Back geared 5 to 1, is designed to be operated by hand, windmill or belt power, for shallow or deep wells. This combined pump and jack is compact, strong and easy to install. Built in two sections, between which is a detachable flange, the upper section being the large air chamber with flanged top to which is bolted the flange bearer, making a firm connection; the lower section or barrel and main frame of the jack are of one-piece construction. This gives a true and permanent alignment of the jack and pump. Equipped with cast gears. The pinion shaft is extra long. Pitmans are made of heavy angle steel. The pitmans, gears, pinions and all wearing parts have No-Oil-Em Bearings. Has tight and loose pulleys. Adjustable stroke, 6 to 10 inches. One piece 1 1-16 inch piston rod, brass covered; brass stuffing box; compression cock spout with hose connection and back outlet. The jack has sufficient clearance above floor to admit of pulley being used as large as 30 inches. Suitable for wells from 25 to 200 feet. Weighs 190 pounds. **Price, $38.50.**

Fig. 8584.—Hoosier Easy-Fix Windmill Force Pump. Single Acting, with detachable cast standard, for heavy service. Has positive Three Way discharge and brass hand wheel screw for regulating the three way distributing valve. Underground discharge elbow as union connection, Brass Stuffing Box and Brass Covered Piston Rod, fitted with 1½ inch pipe air barrel.

The stuffing box is set in extra cap or flange which screws into the bottom casting. By removing stuffing box cap the plunger may be withdrawn without disconnecting the pump. Bearer is provided with removable pump rod guide bushing to prevent wear directly on the bearer guide.

The bottom flange is interchangeable for the size cylinder or pipe to be used. Price of pump without cylinder, **$22.50.**

ADDITIONAL FOR FITTING PUMPS

We give below a table of the additional charge for fitting, and the amount stated in table is to be added to the price of the pump selected. In fitting pumps we use galvanized pipe and galvanized pump rod and a strainer foot valve. For wells 26 feet deep or less we leave the cylinder 5 feet below platform. For wells deeper than 26 feet we place the cylinder close to the bottom of the well.

Prices Subject to Change Without Notice — **We Use an Extra Good Foot Valve**

Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps	Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps	Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps	Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps
10 feet	$3.55	20 feet	$5.75	32 feet	$9.50	44 feet	$12.75
12 feet	4.00	22 feet	6.20	34 feet	10.00	46 feet	13.30
14 feet	4.40	24 feet	7.30	36 feet	10.60	48 feet	13.85
16 feet	4.85	26 feet	7.80	38 feet	11.10	50 feet	14.40
18 feet	5.30	28 feet	8.36	40 feet	11.70	Each additional	
		30 feet	8.90	42 feet	12.25	foot	.27

CLOSED TOP PITCHER SPOUT PUMP

SIZES AND PRICES

No. 2—Diameter of Cylinder, 3 in.; Suction, 1¼ in. Polished Iron Cylinder. Retail, **$2.00.**

No. 3—Diameter of Cylinder, 3½ in.; Suction, 1¼ in. Polished Iron Cylinder. Retail, **$2.50.**

PITCHER PUMP LEATHERS

No. 2—Valve Leathers, each, **16c.**
No. 3—Valve Leathers, each, **20c.**
No. 2—3-inch Leather Cups, **19c.**
No. 3—3½-inch Leather Cups, **25c.**

PUMP CYLINDERS

	Iron Our Price	Brass Lined Our Price
2½x14	.....	$5.75
3x10	$2.50	5.50
3x12	.....	6.00
3x14	.....	6.50
3½x12	.....	7.00
3½x14	.....	7.75
4x10	4.50	—

Artesian Well Cylinder—No. 9171—Deep Well Brass Cylinder 1⅝ for 1-in. pipe to be used in connection with 1355 and similar outfits. 6-in. Stroke, **$3.50.**

2½ and 3-in. cylinders take 1¼-in. pipe; 3½-in. cylinders take 1½-in. pipe; 4-in. cylinders take 2-in. pipe.

BRASS JACKET DRIVE WELL POINTS

No.	Diameter of Pipe	Length	No. 60 Gauge, List Price, Per Doz.	Retail Price Each
98	1¼	36 in.	$56.00	$3.00
102	1¼	48 in.	76.00	4.00
144	1½	36 in.	72.00	4.00
148	1½	48 in.	96.00	5.00

Malleable Drive Caps, Hexagon-shaped, for 1¼-in. Pipe, **50c**
Malleable Drive Caps, Hexagon-shaped, for 1½-in. Pipe, **50c**

IXL GALVANIZED STEEL CHAIN PUMP

Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole, which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I X L Curb	$ 6.50
Gem Curb	5.50
Tubing, per foot	.15
Coupling	.50
Rubber Buckets	.10
Iron Platform	9.00
Chain, per lb	.12

DIRECTIONS FOR FITTING UP CHAIN PUMPS

1. Use one foot more tubing than depth of well.
2. Multiply length of tubing by two and add 3 feet 6 inches to get proper length of chain.
3. Rubber buckets should be placed 6 or 7 feet apart.
4. See that tubing is held secure—by tubing brace at bottom of curb.

GALVANIZED PUMP RODS AND COUPLINGS

⅜-inch Round Galvanized Pump Rod in 20-foot lengths, not threaded, per foot, **5c.**
7-16 in., **6c.**
Threaded with coupling, add 1c per foot; cut lengths, add 3c.
Galvanized Pump Rod Couplings for ⅜ or 7-16 in. rod, **10c.** each.

GOULD'S UNIVERSAL HOUSE FORCE PUMP

Fig. 1726

The **Universal House Force Pump** is an easy working, compact and substantial pump. It is well adapted to house pumping, furnishing water either at the spout or through opening to storage tank. Can be used outdoors over wells and cisterns. Pump should not be placed over 22 feet above the water. Has 2½-inch cylinder and 4-inch stroke. Tapped for 1¼-inch pipe.

No. 2, Fig. 1725 plain spout **$8.50**
No. 2, Fig. 1726, Cock Spout **$9.75**

Fig. 1725

GALVANIZED PIPE FITTINGS

	½	¾	1	1¼	1½	2
Elbows	$ .09	$ .13	$ .17	$ .26	$ .33	$ .52
Tees	.13	.17	.22	.34	.43	.68
Street Elbows	.10	.16	.20	.30	.38	.60
45-Degree Elbows	.12	.16	.21	.31	.39	.62
Cross	.17	.23	.30	.46	.57	.90
Bushings	.08	.10	.12	.14	.18	.28
Lock Nuts	.05	.06	.10	.12	.15	.20
Caps	.07	.10	.13	.17	.23	.33
Reducers	.08	.12	.16	.20	.23	.36
Couplings	.10	.13	.18	.25	.32	.40
Galv. Unions	.33	.40	.50	.70	.90	1.15

GALVANIZED FOOT VALVES

¾-in. $1.00
1-in. 1.00
1¼-in. 1.25
1½-in. 1.80

Hoosier Horizontal Double Acting Hand Pump For Shallow Wells

FIG. 1248

Fig. 1248—Hoosier Horizontal Hand Pump, double acting, for general purpose work or pneumatic water service, for use where the suction is not more than 18 or 20 feet. Pump is equipped with large air chamber and rack head, insuring ease of operation. It has 3x5″ Brass Lined cylinder and a 3 to 5″ adjustable stroke. The pump is tested to 100 pounds pressure. All valve caps, including suction cap, are on the outside and easily accessible. The body is detachable from the base of the pump and in case of breakage of the base it is unnecessary to purchase an entire new pump.

It is fitted with an intake air valve and it can pump both air and water at the same time.

Price of Pump **$20.40**

HOOSIER TANK PUMP

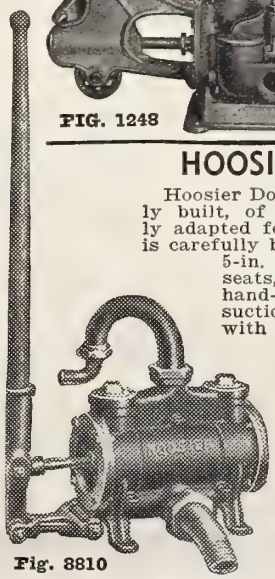


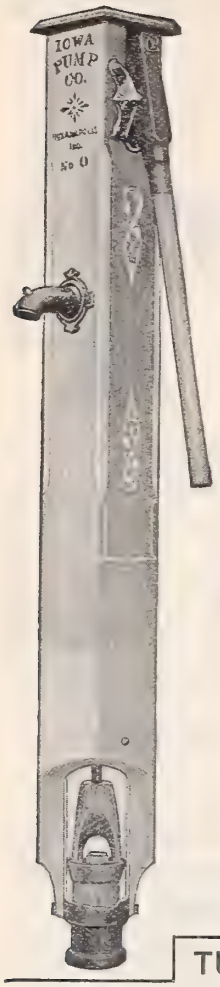
Fig. 8810

Hoosier Double Acting Tank Pumps are strongly built, of very large capacity, and especially adapted for threshermen's use. The cylinder is carefully bored and polished. The cylinder has 5-in. stroke, the valves have brass valve seats, and the valves are accessible through hand-holes by removing the plugs. The suction and discharge have 2-in. openings with swivel connections. Furnished with suction conection for 2-in. pipe or 2-in. hose, and the discharge connection for 2-in. pipe or 1-in. hose.

As the pump heads are reversible, the handle can be attached to either end of the pump.

By opening the upper and lower drainage plug, water can be drawn off the pump to prevent freezing.

Price **$17.00**



BALTIMORE WOOD PUMPS

PRICES OF PUMPS FITTED COMPLETE
With and Without Porcelain Cylinder

Depth of Well	6x6 Unlined Price	6x6 Lined Price	7x7 Lined Price
10 feet	$11.55	$14.05	$16.55
12 feet	12.15	14.65	17.15
14 feet	12.75	15.25	17.75
16 feet	13.80	16.50	18.90
18 feet	15.50	18.15	20.50
20 feet	16.20	18.80	21.20
23 feet		20.70	23.70
25 feet		21.35	24.35
28 feet		24.70	26.25
30 feet		25.90	28.15
33 feet		28.90	31.15
35 feet		30.90	33.15
40 feet		35.90	38.15
45 feet		40.90	43.15
50 feet		45.90	48.15

BALTIMORE WOOD PUMPS

NOT FITTED
"No. 0"—STOCK PUMPS. 7x7 Inches, 4-inch Bore

	Porc. Lined Price
6 feet long	$13.50
7 feet long	14.50
8 feet long	15.50
10 feet long	17.50
6 feet long, reamed for 6x6 extension pipe, unlined	10.75

"No. 1"—THE FAVORITE HOUSE PUMPS

6x6 in., 3½-in. Bore

	Porc. Lined Price
6 feet long	$11.00
7 feet long	11.75
8 feet long	12.50
10 feet long	14.50
12 feet long	16.50
6 feet long, reamed for 6x6 extension pipe, unlined	8.50

PUMP FOR DRIVE WELLS

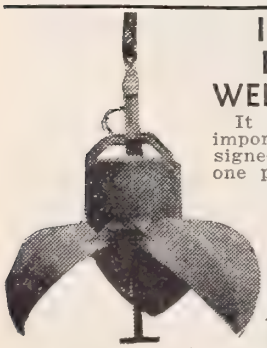
To Fit 1¼, 1½-inch Iron Pipe

Special No. 1 House, 5 feet wood, Porcelain-lined Cylinder, entire length 6 feet.

PRICE $11.00

TUBING AND MISCELLANEOUS

	Retail Price.
4x4, 12 feet long and under, per foot	$0.30
4x4, over 12 feet, per foot	.32
6x6 Extension Tubing, per foot	.80
Cylinder Block, Porcelain Lined, 3 feet long	4.90
Cylinder Block, Porcelain Lined, 4 feet long	5.70
Cylinder Block, Porcelain Lined, 5 feet long	6.50
Cylinder Block, Porcelain Lined, 6 feet long	7.30
Cylinder Block, Porcelain Lined, 7 feet long	8.10
Cylinder Block, Porcelain Lined, 8 feet long	8.90
6x6 Couplings for 4x4 Tubing	1.00
Buckets, 5-in., each, No. 00, Price $1.50; 4-in., each, No. 0	1.25
Buckets, 3½-in., No. 1, each, Price $1.00; 3-in., No. 2, each	.80
Handle, any size, each, Price, 50c; Handle Links or Knuckles	.40
Check Valves, each	.15
Iron Connection for Drive Wells, fitted for 1¼-in. and 1½-in. iron pipe	1.50
Extra Iron Spout, with loose collar	.50
Extra Wood Spouts, each, Price, 30c; Extra Spout Braces, each	.35
Extra Bands, each	.10
Extra Ears or Brackets, Nos. 35 and 36, pair	.50
1-in. Rod Couplings, pair	.60
Plunger Rod, per foot	.04



IMPROVED BESTWAY WELL CLEANER

It makes this very important job easy. Designed to operate by one person from platform.

Made very strong and durable; will last indefiniately; the price is so small and the results so effective that several jobs will more than pay for it.

Keep your water pure and healthful; clean the well often with a Bestway. **$15.00**

OCTAGON WOOD PUMP RODS

Wood Pump Rod for artesian wells is made of selected material and fitted with galvanized forged couplings.

Size of Rod 1⅛ in.

Size of Artesian Well Cylinder 1⅜ in. to 2¼ in.

Price per foot 22c

The above prices are for rod in standard lengths or from 16 to 20 feet, couplings included.

WOOD PUMP ROD.

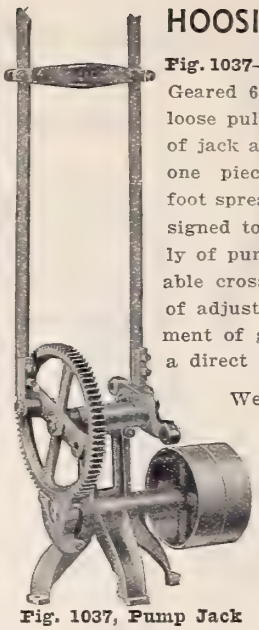


Fig. 1037, Pump Jack

HOOSIER PUMP JACK

Fig. 1037—Hoosier Pump Jack. Geared 6 to 1, with tight and loose pulley. The main frame of jack and tripod base are of one piece construction. The foot spread is extra wide. Designed to operate independently of pump standard. Adjustable cross head with wide range of adjustments. The arrangement of gear and pinion gives a direct even lift.

Weight 95 pounds.

Price, $16.35

Figure 1031 — Hoosier Pump Jack, with tight and loose pulleys for gasoline engine or electric motor, with motor speed reduced. The drive shaft may be driven 200 R. P. M.; as a rule, however, we recommend 170 R. P. M., or about 34 strokes per minute.

The pitmans are made of hard wood, and with their wide range or adjustment the jack can be attached to a windmill-head pump without disturbing the pump or pipe connections.

This jack can be used on the wall, floor or ceiling.

Will operate a 3-inch cylinder, 125 foot lift on 8-inch stroke.

Price $10.50

PUMP LEATHERS

Our pump leathers are cut from the best grade of selected Oak Tan leather. We offer only such leathers as we can recommend as being absolutely high grade.

Plunger Leather Crimped

Suction Valve Leather

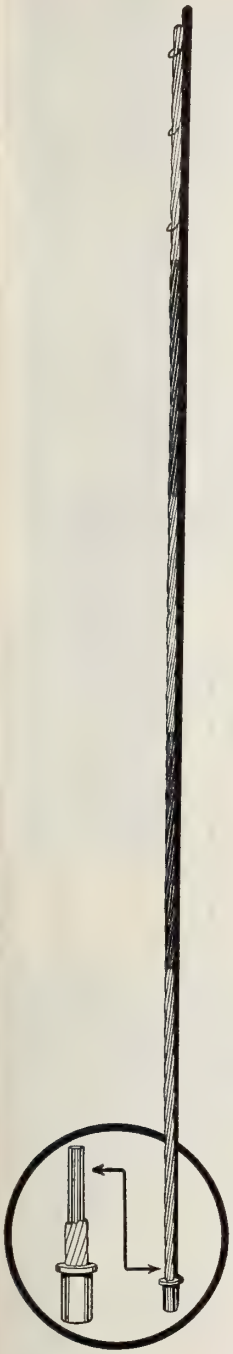
CRIMPED PLUNGER OR CUP LEATHERS

	Each		Each
1 inch	$0.08	3¼ inch	$0.22
1¼ inch	.08	3½ inch	.25
1½ inch	.10	3¾ inch	.31
1¾ inch	.10	4 inch	.35
2 inch	.11	4¼ inch	.38
2¼ inch	.12	4½ inch	.40
2½ inch	.15	4¾ inch	.45
2¾ inch	.18	5 inch	.50
3 inch	.19		

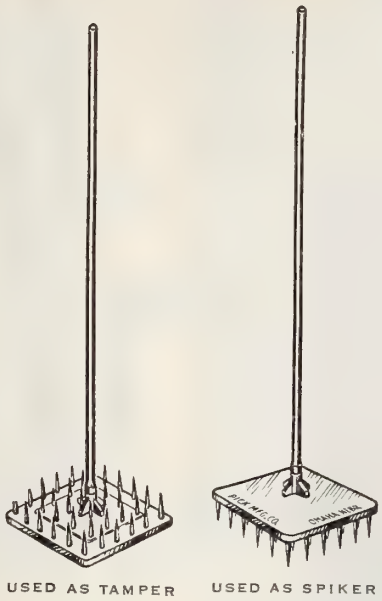
PLUNGER AND LOWER VALVE LEATHERS

O'tside Cylinder Diam.	Diam	Each	O'tside Cylinder Diam.	Diam	Each
2 in.	1½ in.	$0.10	3½ in.	3 in.	$0.16
2¼ in.	1¾ in.	.10	3¾ in.	3¼ in.	.17
2½ in.	2 in.	.11	4 in.	3½ in.	.20
2¾ in.	2¼ in.	.12	4½ in.	3¾ in.	.25
3 in.	2½ in.	.13	5 in.	4 in.	.30
3¼ in.	2¾ in.	.15			

GOLF ACCESSORIES



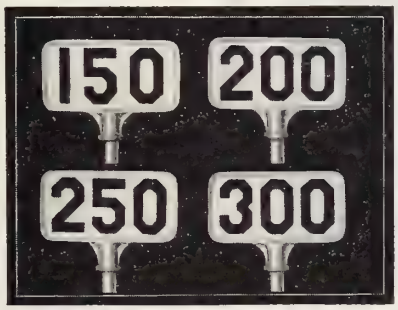
Poles and Swivels
(Standard Steel)
Flag Poles $2.00
Swivels ..... .25



Spike-Tamp—The Lawn Maker's Friend
Price $3.50

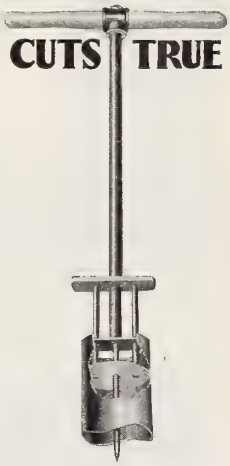
Lewis Golf Ball Washer
Less Tee Data Plate $6.00

Practice Green Marker
$1.00

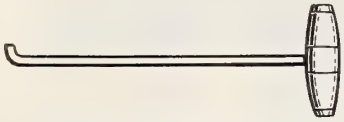


Fairway Yardage Markers
Each $1.25

Putting Cup
Aluminum $2.00
Cast Iron 1.00



Hole Cutter
Complete $7.00



Putting Cup Extractor
Price 60c

Arrow Tee Markers
(5x11)
Price, with wording $1.50

Direction Flag
(Style 6—14x20)
Price, Cotton $0.40
Price, Wool ..... .55

Greens Flag, 14x20 With Numerals

	Cotton	Wool
Set of 9	$4.00	$5.40
Each	.50	.65

Aluminum Tee Marker
Per Pair $1.00

SAFETY FIRST TILLEY LADDERS

We Carry a Complete Line of Ladders for Every Purpose

SPRING LOCK EXTENSION LADDER (SPRUCE)

FOR PAINTERS, TINSMITHS, CARPENTERS, MILLS, FARMING AND GENERAL USE

Side Rails of thoroughly air-dried selected material. Rungs are selected Ash and Hickory with minimum diameter of 1 3/16 inches. All equipped with rope hoist and two improved Automatic Spring Locks of soft malleable and cold rolled steel, securely bolted to the side rails.

This is the universal favorite on account of its quick positive action.

20 ft.—Two 10-ft. Sections, Extends to 17 ft. **$8.85**
24 ft.—Two 12-ft. Sections, Extends to 21 ft. **$10.60**
28 ft.—Two 14-ft. Sections, Extends to 25 ft. **$12.40**
30 ft.—Two 15-ft. Sections, Extends to 27 ft. **$13.25**
32 ft.—Two 16-ft. Sections, Extends to 29 ft. **$14.25**
36 ft.—Two 18-ft. Sections, Extends to 33 ft. **$16.80**
40 ft.—Two 20-ft. Sections, Extends to 36 ft. **$18.75**
44 ft.—Two 22-ft. Sections, Extends to 40 ft. **$21.75**
48 ft.—Two 24-ft. Sections, Extends to 44 ft. **$29.60**
52 ft.—Two 26-ft. Sections, Extends to 47 ft. **$32.10**
60 ft.—Two 30-ft. Sections, Extends to 55 ft. **$53.50**
Ladder Locks **$2.50 per pair**

LIBERTY EXTENSION LADDER

(HEMLOCK)

This is a good extension ladder for general purposes.

Equipped with rope hoist, malleable locks securely bolted to side. Side rails of air-dried select material.

Regularly made with spread bottom.

20 ft.—Two 10-ft. Sections, Extends to 17 ft. **$8.35**
24 ft.—Two 12-ft. Sections, Extends to 21 ft. **$10.00**
28 ft.—Two 14-ft. Sections, Extends to 25 ft. **$11.75**
30 ft.—Two 15-ft. Sections, Extends to 27 ft. **$12.50**
32 ft.—Two 16-ft. Sections, Extends to 29 ft. **$13.40**
36 ft.—Two 18-ft. Sections, Extends to 33 ft. **$15.30**
40 ft.—Two 20-ft. Sections, Extends to 36 ft. **$17.00**
Ladder Locks **$1.75 per pair**

CLEVELAND SAFETY LADDER JACK

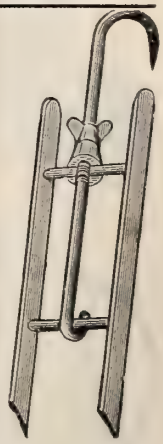
Per Pair $5.00

SINGLE LADDERS

10, 12, 14, 16 foot **28c per foot**
18, 20, 22 foot **29c per foot**
24 and 26 foot **32c per foot**

ROOF AND GUTTER HOOK

For Hanging Swinging Stages or can be used for many other purposes; strong and durable. **Pair, $6.25.**



ROOF HOOK

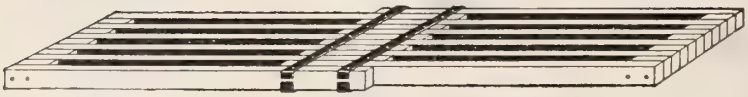
Price $1.15

SWINGING STAGE PLATFORM

Our Painters' Scaffolds are made from seasoned and selected stock.

	Less floor	With floor	Tooth pick stage
10 to 16 foot	.55 ft.	.78 ft.	.63 ft.
18 to 22 foot	.63 ft.	.88 ft.	.70 ft.
24 to 30 foot	.70 ft.	1.00 ft.	.75 ft.

EXTENSION PLANKS



These adjustable Planks are used by Painters and Decorators and are now a part of their equipment.

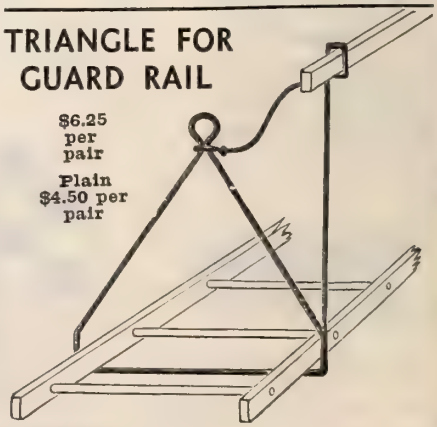
6 ft., extends to 10 ft., two sections **$5.00**
8 ft., extends to 14 ft., three sections **6.75**
10 ft., extends to 18 ft., three sections **8.15**

Blocks and Falls—**See page 96.**

TRIANGLE FOR GUARD RAIL

$6.25 per pair

Plain $4.50 per pair



TILLEY TROJAN

For all uses, light, strong and stiff. A combination cold-rolled steel knee, tie and angular brace under end of each step, which forms a positive tie support and angular brace. Pail rests on all Trojan Ladders.

The favorite with painters, janitors and for general household duty.

4 ft.	$2.25	8 ft.	$4.50
5 ft.	2.85	10 ft.	5.65
6 ft.	3.40	12 ft.	6.75

NATIONAL

NATIONAL STEP LADDER

Full Rodded, Steel Lock with Handle.

4 ft.	$1.35	8 ft.	$2.70
5 ft.	1.70	10 ft.	3.40
6 ft.	2.00		

TILLEY MOHAWK

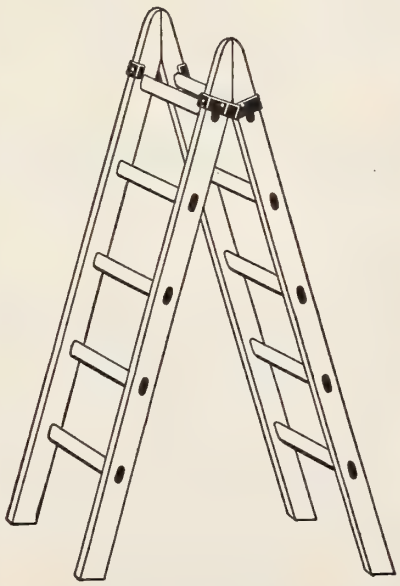
Made from selected material.

Full rodded and trussed.

Equipped with steel top hinges and side hinges as shown above.

4 ft.	$1.70	6 ft.	2.50
5 ft.	2.10	8 ft.	3.35

TILLEY PAINTERS' TRESTLES

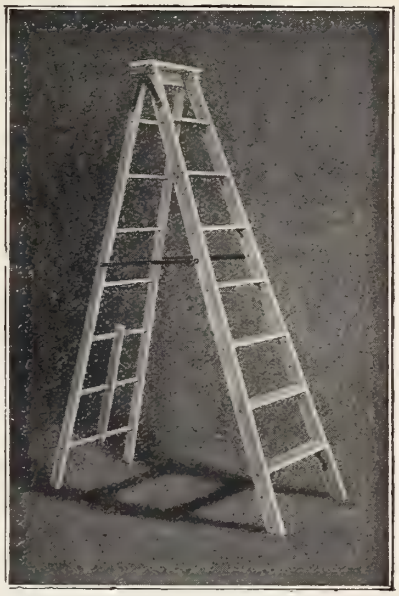


STRONG AND LIGHT

Made in all sizes, from 6 feet to 12 feet.

6-ft.	$4.80
8-ft.	6.40
10-ft.	8.00
12-ft.	9.60

TILLEY ELECTRICIAN

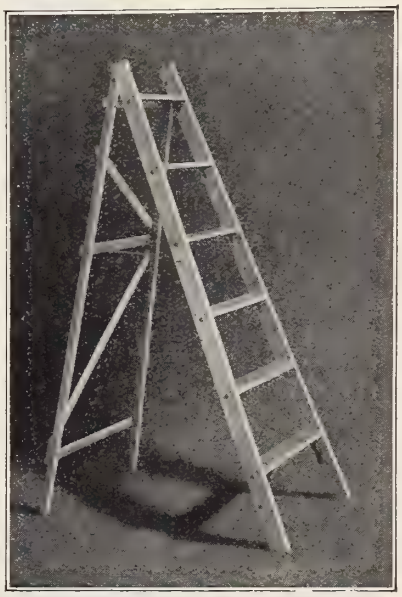


A combination Step Ladder and Trestle. Just the ladder for electricians, plumbers and mill work. A combination cold-rolled steel knee, tie and angular brace under end of each step, which forms a positive tie support and angular brace.

This ladder is built to give real service. It has malleable iron top hinges. The rounds in the back are 1⅛ inch diameter.

4 ft.	$2.90	12 ft.	$8.70
5 ft.	3.65	14 ft.	12.25
6 ft.	4.35	16 ft.	14.00
8 ft.	5.80	18 ft.	18.00
10 ft.	7.25	20 ft.	20.00

TILLEY DECORATORS



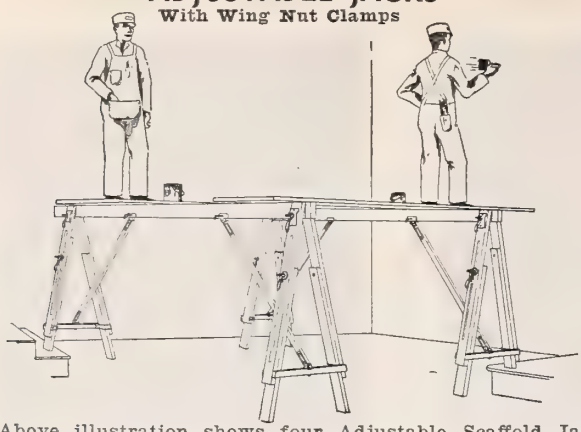
This ladder is for paper hangers, painters and interior decorators.

Made of Spruce material, approved specifications.

4 ft.	$2.00	10 ft.	$5.00
5 ft.	2.50	12 ft.	6.00
6 ft.	3.00	14 ft.	8.05
8 ft.	4.00	16 ft.	9.20

ADJUSTABLE JACKS

With Wing Nut Clamps



Above illustration shows four Adjustable Scaffold Jacks ready for use. It requires Four Jacks to properly scaffold a room, on which Planks can be laid, thus giving a safe platform to work on.

ADJUSTABLE SCAFFOLD JACKS (ONLY)

	Each		Each
No. 6—4 ft. extends to 6	$5.60	No. 15—8 ft. ext. to 12½	$9.50
No. 7—5 ft. extends to 8	6.25	No. 16—10 ft. ext. to 16	13.75
No. 8—6 ft. ext. to 9½	7.00	No. 17—12 ft. ext. to 20	16.25
No. 9—7 ft. ext. to 11 ft.			7.50
Adjustable Scaffold Jack Iron Brackets, set of four			2.00

TILLEY WINDOW CLEANERS

A very convenient ladder for wndow cleaning purposes or where a ladder has to be carried from one place to another.

It is made in sections, which makes it convenient to handle.

All sections are fitted into each other.

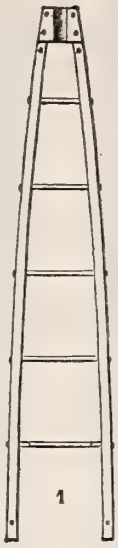
These ladders are made in 6-foot lengths.

Top Section **$2.50**

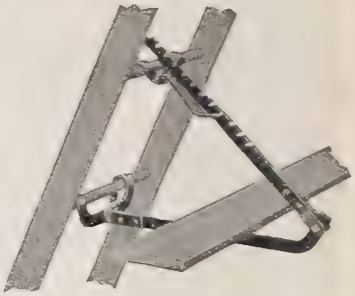
No. 2 Middle **$2.25**

No. 3 Bottom **$2.25**

6 ft. 3 in.

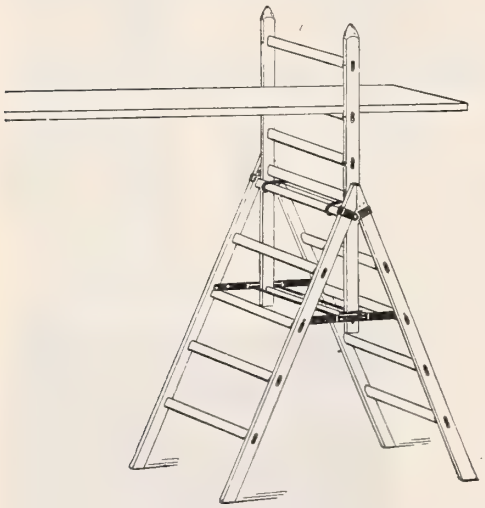


BETTCHER LADDER JACK



Price $3.50

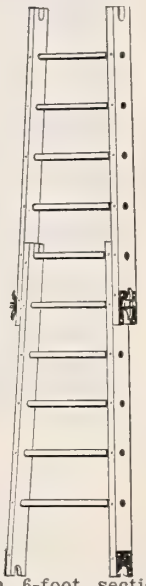
EXTENSION TRESTLES



EXTENSION TRESTLES

6 ft. extending to 10 ft., each	$10.00
8 ft. extending to 14 ft., each	12.50
10 ft. extending to 18 ft., each	15.00
12 ft. extending to 22 ft., each	17.50
14 ft. extending to 26 ft., each	20.00
16 ft. extending to 30 ft., each	22.50

TILLEY SECTIONAL LADDERS



Made in 6-foot sections, each end protected with iron plates and equipped with large bolts with thumb nuts, making them safe and durable. Hickory rungs. Sections 6 feet 5 inches.
$3.25

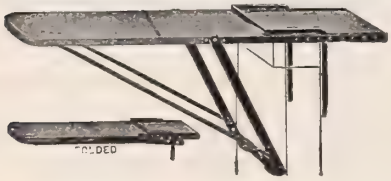
PLATFORM STEP LADDERS

No. 6—4 feet to platform	$9.50
No. 8—6 feet to platform	12.00
No. 10—8 feet to platform	14.50
No. 12—10 feet to platform	17.00
No. 14—12 feet to platform	19.50
No. 16—14 feet to platform	22.00

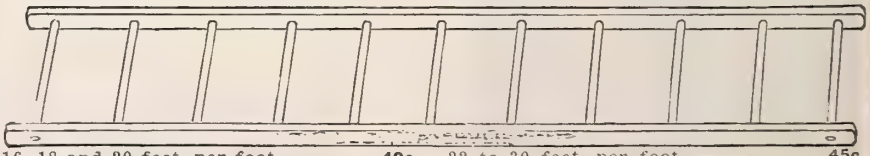
WINDOW BRACKET

Made in Two Sizes

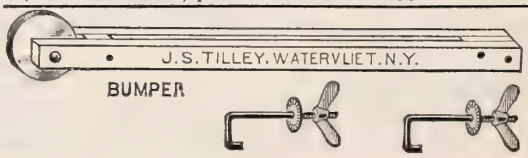
No. 1—4 feet 4 inches	$5.65
No. 2—6 feet	7.00



MASON OR BRICKLAYERS' LADDER



16, 18 and 20 feet, per foot ..... 40c 22 to 30 feet, per foot 45c

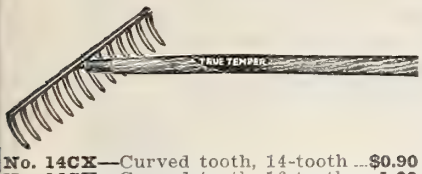


Bumpers for stages, per pair, less hooks $2.00

Bumper hooks with nuts and washers, per set of 4 ..... $2.00

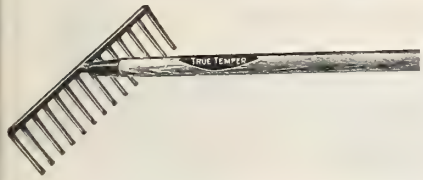
ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

STEEL RAKES



No. 14CX—Curved tooth, 14-tooth ... $0.90
No. 16CX—Curved tooth, 16-tooth ... 1.00
No. 18CX—Curved tooth, 18-tooth ... 1.15

STRAIGHT TOOTH RAKE



No. S12X—Straight tooth, 12-tooth $0.80
No. S14X—Straight tooth, 14-tooth .85
No. S16X—Straight tooth, 16-tooth .95
No. S18X—Straight tooth, 18-tooth 1.10
No. P12—12-tooth, single shank .60
No. P14—14-tooth, single shank .65
No. P16—16-tooth, single shank .75

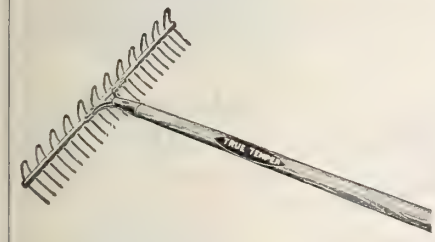
PRIZE BOW RAKE

No. B12X—Prize, bow-braced rake, solid, 12 teeth. Price, each ... $0.95
No. B14X—Prize bow-braced rake, solid steel, 14 teeth. Price, each ... $1.05
No. B16X—Solid, bow-braced rake, solid steel, 16 teeth. Price, each ... $1.15

STEEL ROAD RAKES

No. X14—14-tooth ... $1.65
No. X16—16-tooth ... $1.70

WIRE RAKE



No. 124R—24-tooth, each ... $1.00

24-TOOTH RAKE

24-tooth, 3 wire bows 80c

Extra teeth, each ... 3c

STEEL BRUME RAKE

No. FBR22—Light & very flexible ... $1.00
No. FBR24—Straight design ... 1.00
No. LC24—Lawn Comb ... 1.50

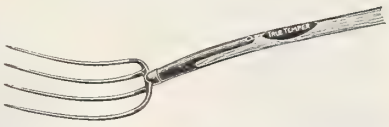
STEEL ASPHALT RAKES

No. 1014—14-tooth, strap ferrule ... $2.50

HAY FORKS

No. 26X—2-tine, 6-foot handle ... $1.30
No. 026X—2-tine, 6-foot handle ... 1.45
No. 36X—3-tine, 6-foot handle ... 1.45
No. 036X—3-tine, 6-foot handle ... 1.55
No. 037X—3-tine, 7-foot handle ... 2.00
No. 038X—3-tine, 8-foot handle ... 2.25

4-TINE FORK



No. 044½X—4-tine, 4½-ft. handle ... $1.30
No. 054½X—5-tine, long handle ... 1.45
No. 064½X—6-tine, long handle ... 1.65

BATCHELOR FORK

No. 044—4-tine, 4-foot handle ... $1.60

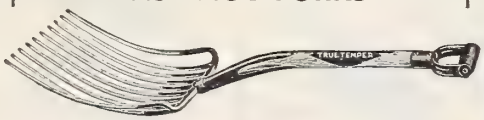
D-HANDLE MANURE FORKS

No. 04DX—D handle, 4-tine, regular $1.25
No. 05DX—D handle, 5-tine, regular 1.40
No. 06DX—D handle, 6-tine, regular 1.60
No. 151—D Handle, 4-tine, heavy ... 2.50
No. 153—D Handle, 4-tine, ex. hvy. 2.70
No. 157—D Handle, 5-tine, ex. hvy. 3.50

SPADING FORK

No. OHW—4-tine angular back ... $1.90
No. CLD—Medium weight ... 1.30
No. JOW—Jumbo, 4 polished tines ... 2.30
No. B4D—Boys' 4-tine, price ... .85

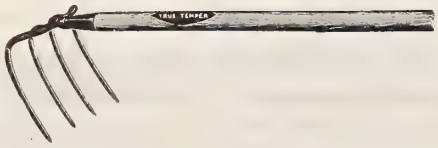
ENSILAGE FORKS



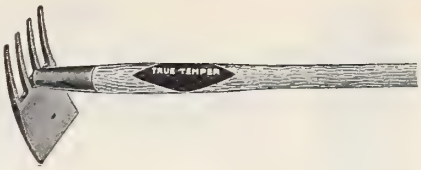
No. 508—8 16-in. tines, iron D handle, each ... $2.70
No. 510—10 17-in. tines, iron D handle, each ... $3.15

No. 100S—10-tine, D handle, stone fork, each ... $3.25
No. 102S—12-tine, D handle, stone fork, each ... $3.75
No. 910—10-tine, scoop shape, malleable D handle, strap ferrule, each ... $2.95
No. 912—12-tine, scoop shape malleable D handle, strap ferrule, each ... $3.55
No. 712—Coke Forks, 12-tine, D handle, strap ferrule, each ... $3.65

MANURE HOOKS



No. M40X—4 oval tines, 5-ft. handle $1.25
No. M60X—6 oval tines, 5-ft. handle 1.55



No. 1P—Sharp point hoe ... $0.60
No. 2P—2-point hoe ... .65
No. 4P—4-point hoe and rake ... 1.15

CRESCENT CULTIVATOR HOE

N. BB6—7-inch steel blade. 4½ foot handle ... $1.00

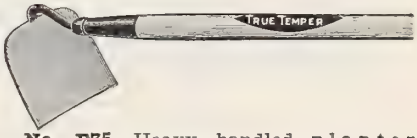
POTATO HOOKS

No. 4BOH—Heavy broad oval tines, bent head, 4½-foot handle ... $1.30
No. 5BOH—5 tines, heavy broad oval tines, bent head, 4½-foot handle ... $1.65

DOCK DIGGERS

No. 39D—Square point ... $1.65
No. 39A—V point ... 1.70

PLANTER HOES



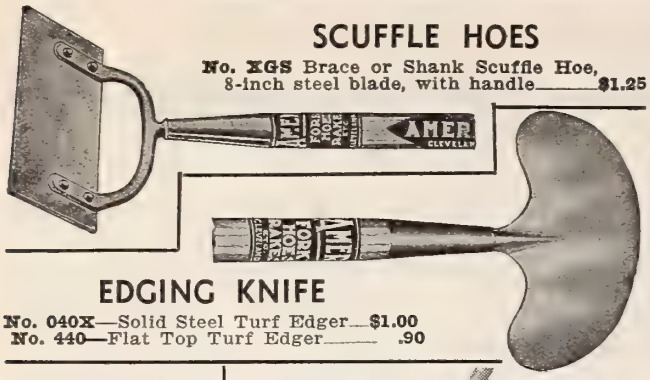
No. P75—Heavy-handled planter shank hoe, 7-in. blade ... $1.15
No. P8½-5—Heavy-handled planter shank hoe, 8-in. blade ... $1.35

GARDEN HOES

No. GO-67X—Solid steel garden socket hoe, XX handle, each ... $1.05
No. G67X—Solid steel garden shank hoe, XX handle, each ... 90c
No. TY4—Solid steel lady's shank hoe, XX handle, each ... 90c

NO. 1 SOD LIFTER

Each, $2.15



SCUFFLE HOES

No. XGS Brace or Shank Scuffle Hoe, 8-inch steel blade, with handle **$1.25**

EDGING KNIFE

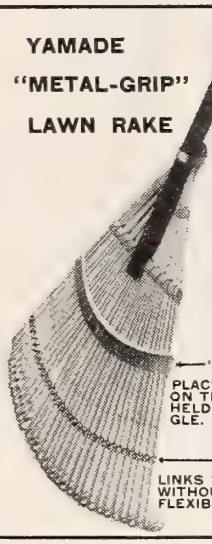
No. 040X—Solid Steel Turf Edger **$1.00**
No. 440—Flat Top Turf Edger ..... **.90**

GARDEN SETS

Shovel **75c**
Rake **50c**
Hoe **90c**

No. 3PSX—3-piece, 5-T rake, shovel and hoe **$2.75**

YAMADE "METAL-GRIP" LAWN RAKE



Note the new style with metal grip made of non-corrosive, never-rusting steel. Keeps every tooth permanently placed. Exclusive distributors for this style rake.

18-inch **$0.60**
24-inch **1.00**
30-inch **1.50**

"METAL-GRIP" WHICH PLACES EVERY TOOTH ON THE GROUND WHEN HELD AT NORMAL ANGLE.

SPIRAL WHICH LINKS TEETH TOGETHER WITHOUT RESTRICTING FLEXIBILITY.

COTTON HOES

No. C75X—7-inch, handled cotton hoe **$0.90**
No. C85X—8-inch, handled cotton hoe **1.00**

TWO-HOLE MORTAR MIXERS

No. SM29—9-inch blade, solid socket, 5½-foot handle **$1.65**
No. SM210—10-inch blade, solid socket, 6-foot handle **1.75**

STREET HOE

No. 12S—12-inch blade, steel shank, 6-foot handle **$1.80**

DIG EASY MATTOCK HOES

This Hoe is similar to Crescent Double-Bit Hoe.
No. DE3—1⅝-inch and 3-inch blades **$1.15**

INVINCIBLE GARDEN CULTIVATORS

Tines can be adjusted by simply turning a nut.
No. 1GC3—3 shank ..... **90c** **No. 1GC5**—5 shank **$1.15**
Extra teeth **15c**

WIRE POTATO SCOOP

$2.50

STEEL BARLEY FORKS

4 tine **$2.00**

Blood's Bush and Brier Hooks

No. 10—Axe handle hook **$1.75**

ENGLISH WALDRON BLADES

34-inch Grass Scythe **$3.20**
36-inch Grass Scythe **3.50**
38-inch Grass Scythe **3.75**
Bush Scythe **3.20**
Weed Scythe **3.20**

STA-TITE SNATHS

No. 300—All blades fit and stay tight. Has new Back Saver heel plate. 60 in. long. For light or heavy mowing **$1.85**

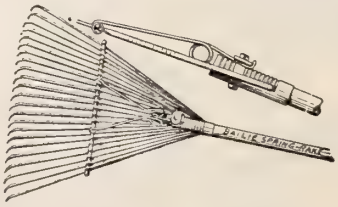
No. 50 I-B-S—With Back Saver heel plate. 60 in. long. For grass **$1.65**

BUSH AND WEED SCYTHE

Bush and Weed Scythe (uses 300 Sta-Tite snath) **$1.85**

GRASS SCYTHE

Earle Special (uses No. 50IBS snath) **$1.70**



BAILE LAWN RAKE

Note the spring on back

$1.85

PLANET JR. LAWN EDGER

Price, $1.50

MANURE FORK HANDLES WITH STRAP FERRULE
No. X—4½ ft., with strap ferrule and cap. Each **50c**
No. X—Plain 4½ ft. Each **30c**

HAY FORK HANDLES
No. X—Plain, 6 ft. Each **50c**
No. X—Plain, 7 ft. Each **80c**
No. X—Plain, 8 ft. Each **$1.20**

GARDEN HOE HANDLES
No. X—Plain, each, 4 ft. **30c**
EYE HOE HANDLES
No. X—For D. E. hoe, 4½ ft., 2 in. butt, each **40c**

SHOVEL HANDLES (Plain)
No. X—L. H., 4½ ft., each **50c**
No. X—D. H. **55c**
RAKE HANDLES
No. X—Plain, 5½ ft., ea. **35c**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

NAYLOR BRAND Plain Black SHOVELS

The blade and straps are made from separate pieces of steel; the straps are welded to the blade. In the blade, stiffness, strength and resistance to abrasion are essential. In the strap, steel is required which is tough, yet ductile enough to conform to the curve as well as the round of the handle.

Long Handle Round Point Shovels

No. N-103—Size 2, Long Handle, Round Point Shovel **$1.30**

Round Point Dee Handle Shovels

No. N-102—Size 2, D Handle, Round Point Shovel **$1.30**

Dee Handle Square Point Shovels

No. N-100—Size 2, D Handle, Square Point Shovel **$1.30**
No. N-100—Size 3, D Handle, Square Point Shovel **1.40**
No. N-100—Size 4, D Handle, Square Point Shovel **1.50**

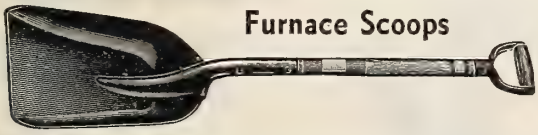
Dee Handle Spades

No. N-124—Size 2, Standard Spade, Long Handle **$1.30**
No. N-125—Size 2, Standard Spade, D Handle **1.30**
No. N-118—18-inch Ditching Spade, D Handle **1.75**
No. N-120—18-inch Drain Spade, Round Point, D Handle **1.75**

Western Pattern Scoops

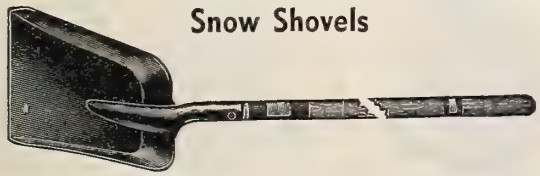
No. N-312—Size 4, D Handle, Western Pat. Scoop Shovel **$1.40**
No. N-312—Size 6, D Handle, Western Pat. Scoop Shovel **1.50**
No. N-312—Size 8, D Handle, Western Pat. Scoop Shovel **1.60**
No. N-313—Size 4, Long Handle, West. Pat. Scoop Shovel **1.40**
No. N-313—Size 6, Long Handle, West. Pat. Scoop Shovel **1.50**
No. N-313—Size 8, Long Handle, West. Pat. Scoop Shovel **1.65**

Furnace Scoops



No. 60—Furnace Scoop **$0.60**

Snow Shovels



No. 51—General Purpose Snow Shovel **$0.60**

AMES SHOVELS AND SPADES

GENUINE OLIVER

Each shovel and spade which bears the signature "Oliver Ames," is your continued guarantee of matchless service. It is identified by the genuine O. AMES Label. Significant of the O. AMES grade, is the blade of Ames special alloy; heat treated for maximum resistance to abrasion; with selected second growth Northern Ash, extra strong, fine grained handle.

Long Handle Round Point Shovels

No. A-1030—Long Handle, Round Point Shovel **$2.00**

Long Handle Square Point Shovels

No. A-1010—Long Handle, Square Point Shovel **$2.00**

Square Point Dee Handle Shovels

No. A-1000—D Handle, Square Point Shovel **$2.00**

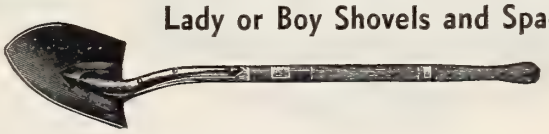
Dee Handle Spades

No. A-1240—D Handle, Standard Spade **$2.00**

Nursery Spades

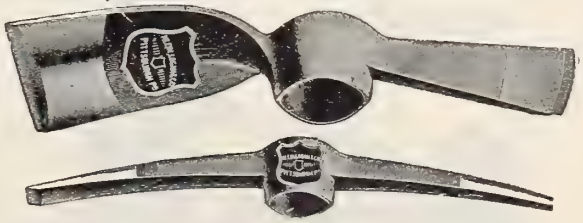
No. A-1280—D Handle, Full Strapped Nursery Spade **$4.00**

Lady or Boy Shovels and Spades



No. A-1150—Lady or Campers' Shovel **$1.10**
No. A-1140—Campers' or Auto Shovel **1.00**

PICKS, MATTOCKS AND GRUB HOES

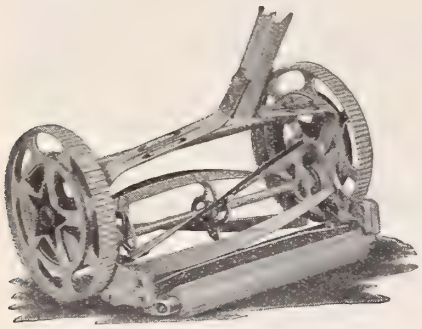


No. 1 Gritco—6 to 7 lbs., Best Quality Warranted Steel Railroad Picks **$1.00**
No. 2 Gritco—8 to 9 lbs., Best Quality Warranted Steel Railroad Picks **1.10**
No. 1 Gritco—5-lb. Best Quality War. Steel Mattocks ..... **.90**
No. 1 Gritco—6-lb. Best Quality War. Steel Mattacks **1.00**
No. 2 Gritco—Warranted Grub Hose ..... Each, **1.00**

Pick and Mattock Handles

Retail
First Quality Hickory Pick Handles **$0.50**

ALL MOWERS MADE BY PENNSYLVANIA LAWN MOWER WORKS



BANNER MOWER

Ball Bearing

8-inch Wheel
4 Blade

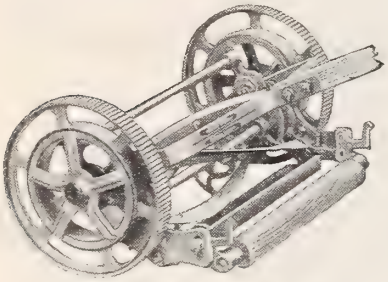
12-in.	$5.40
14-in.	5.60
16-in.	5.80

KLIFTON

10-inch Wheel
4 Blade

14-in.	$6.40
16-in.	6.65
18-in.	7.00

LINCOLN BALL-BEARING MOWER



10-in. Wheel, 5 Blade

This machine is made from high-grade material. Its construction, while extremely simple, is very strong and durable. Ball bearing.

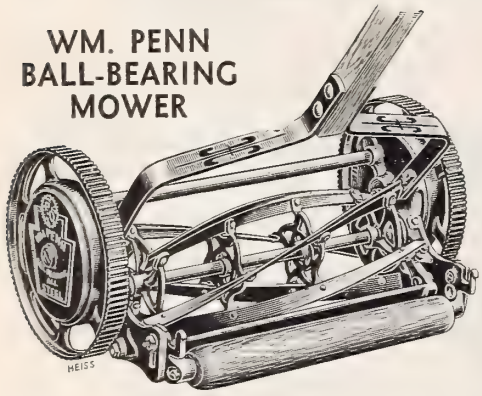
14-in.	$6.75
16-in.	7.00
18-in.	7.50

ORCHID MOWER

10-in. Wheel, 5 Blade

15-in.	$10.50
17-in.	11.00

WM. PENN BALL-BEARING MOWER



All Steel
Ball Bearing

10-in. Wheel

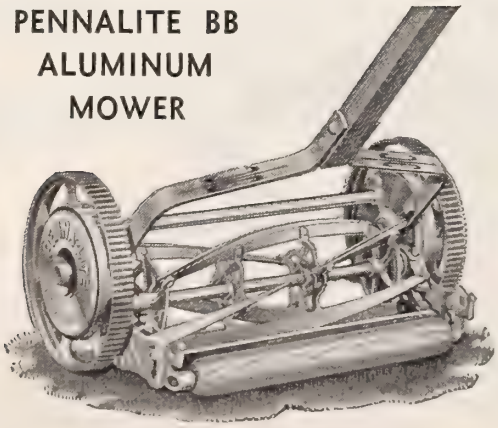
5 Blade

One Size Only

17-in. Mower,

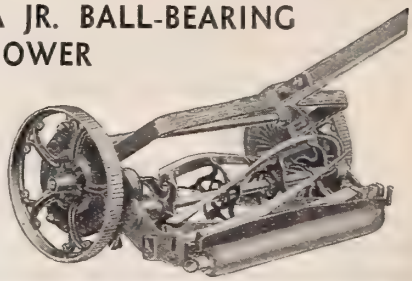
$15.00

PENNALITE BB ALUMINUM MOWER



Weighs 29 lbs., 17-inch $15.00

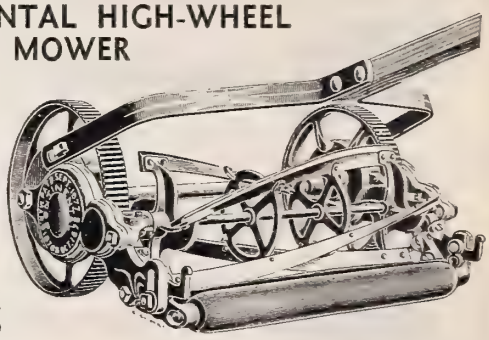
PENNSYLVANIA JR. BALL-BEARING MOWER



Same high-grade construction used in the Pennsylvania High-Wheel and Continental Mower.

15-in.	$20.00
17-in.	22.00
19-in.	24.00
21-in.	27.00

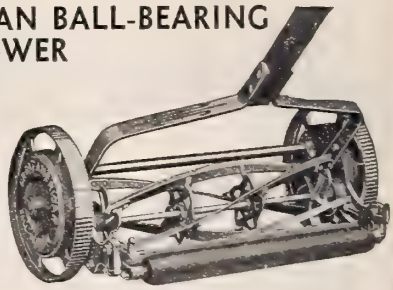
CONTINENTAL HIGH-WHEEL MOWER



This very high-grade machine will cut fine grass two inches high; also grass six to eight inches. We highly recommend this machine.

15-in.	$20.00
17-in.	22.00
19-in.	24.00

GREAT AMERICAN BALL-BEARING MOWER

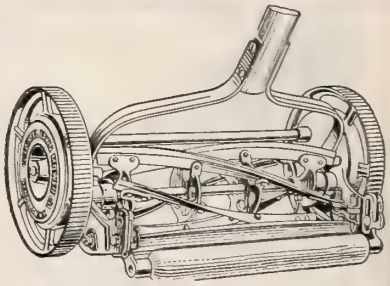


Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental. Can be regulated to cut from ⅜ to 1⅜ inches from the ground.

15-in.	$14.00
17-in.	16.00
19-in.	18.00
21-in.	20.00

AMBASSADOR MOWER

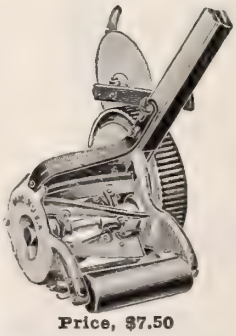
HIGH GRADE ROLLER BEARING



10-in. Wheel, 5 Blades

16-in.	$12.50
18-in.	13.50

ACE TRIMMER



Price, $7.50

LAWN MOWER REPAIRING AND SHARPENING

Our well-equipped shop and competent mechanics, that have been repairing and sharpening lawn mowers for years, assures you of a first-class job.

Our repair department does not confine its operation to sharpening and repairing lawn mowers only. We are in position to do general repair work and solicit your patronage in other lines of work.

WATER BALLAST LAWN ROLLER

No. 601—Drum 14 in. dia., 24 in. long, weight empty 70 lbs., filled with water 175 lbs., price **$13.00**

No. 602—Drum 18 in. dia., 24 in. long, weight empty 85 lbs., filled with water 265 lbs., price **$15.25**

No. 603—Drum 24 in. dia., 24 in. long, weight empty 110 lbs., filled with water 420 lbs., price **$17.50**

No. 604—Drum 24 in. dia., 32 in. long, weight empty 130 lbs., filled with water 566 lbs., price **$19.75**

No. 607—Plain bearing, 14 in. dia., 15 in. long, price **$10.00**

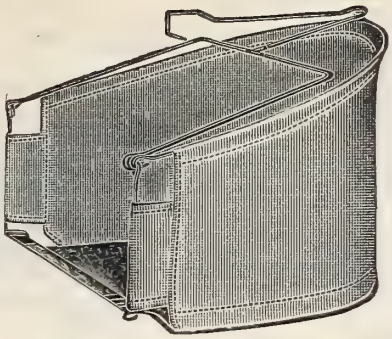
CAST IRON HAND LAWN ROLLER —Two Sections

No. 504—20 in. dia., 20 in. long, weight 250 lbs., price **$24.00**

No. 507—20 in. dia., 24 in. long, weight 300 lbs., price **$30.00**

No. 509—24 in. dia., 20 in. long, weight 400 lbs., price **$40.00**

PENNSYLVANIA "NEW" FAIRWAY MOWER



GRASS CATCHER

No. 151H — Metal Bottom Catcher, 13 inches deep, made of heavy duck; heavy galvanized wire frame; adjustable steel hooks; adjustable to mowers 12 to 16 inches wide.

Price, 151H 90c

No. 156H—16 to 20 inches wide.
Price $1.00

Canvas Catcher, both sizes 50c

IRON-STRAPPED BLOCKS

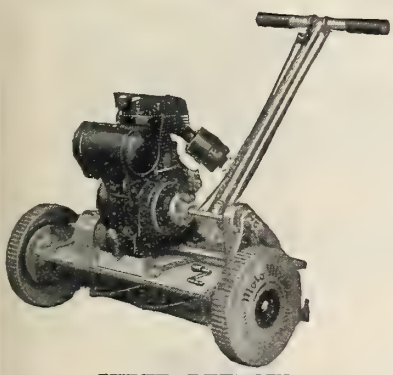
Patent Roller Bushed with Beckets

Size of Sheaves Inches	Diameter Rope	Length Pulley Shell	Single	Double
3½x1x½	¾ inch	6 inches	$1.20	$2.25
4¼x1x½	⅞ inch	7 inches	1.40	2.65
4¾x1⅝x⅝	1 inch	8 inches	1.75	3.50

Block and Fall for stages. 2 Single Blocks. 2 Double Blocks. 40 ft. Fall, 350 ft.; 50 ft. Fall, 425 ft.; 60 ft. Fall, 500 ft.
¾ in. Rope—6 ft. to lb.
⅞ in. Rope—4¼ ft. to lb.
1 in. Rope—3¾ ft. to lb.

Fairway Trio Mower, horse drawn, 30-in. unit, 6-blade	$350.00
Fairway Trio Mower, tractor drawn, 30-in. unit, 6-blade	325.00
Fairway 5-Unit Mower, tractor or 4-horse hitch	550.00

MOTO-MOWER



SUPER DETROIT

The Moto-Mower offers efficient power mowing service at a moderate cost.

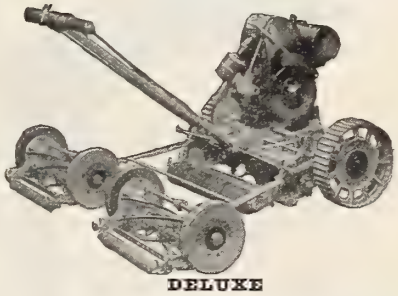
A twist of the wrist controls the power. The power from the engine is transmitted direct to the Cutting Reel, through Jack Shaft, chain and sprocket, the most efficient method of drive known.

It will operate on hills and terraces, and runs an average of eight hours on a gallon of gasoline.

The machine is shipped assembled ready to go to work. Has a fine 4-cycle valve-in-the-head Motor. All parts accurately machined and ground. Splash Oil System is used; has no complicated parts in carburetor.

30-inch Mower has clutch for throwing out

30 inch, Super Detroit	$300.00
24 inch, Standard	250.00
21 inch, City Model	195.00
18 inch, Junior Model	120.00
Grass Catchers—21 inch	5.00
24 inch, 27 inch and 30 inch	5.50



DELUXE

30 inch DeLuxe Mower	$335.00
20 inch Units	35.00
Sulky	35.00
Weed Clipping Attachment for 24 inch and 30 inch	65.00

GREENS KEEPER

GREENS KEEPER is a Power Putting Greens Machine, 20 inch cut, weight 165 pounds, throw-out clutch, eight crucible steel blades.

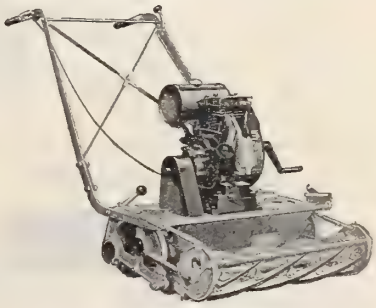
Price $230.00

LAWN MASTER for fine lawns. Tracker roller, 6 crucible blades. The best made.

Price, 25 inch cut $300.00

Price, 30 inch cut 350.00

Send for Special Circulars on all Moto Mowers



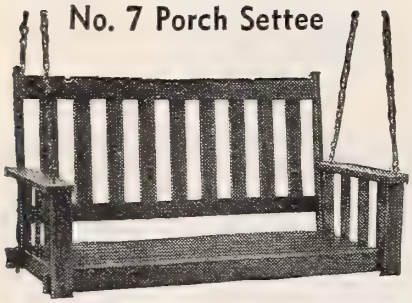
LAWN MASTER

BAUSMAN STEEL LAWN SWING

With Canopy **$18.00**
Without Canopy **15.50**

Seat is 30 inches wide; back 29 inches high; wooden arm rests. Height of frame is 7 feet. Floor space required 5x8 feet. Weight is 150 pounds.

No. 7 Porch Settee



Very popular and durable. Finished in weathered oak. All slats bolted to frame; no rivets.
No. 7—5 foot. Our special price..**$7.00**
No. 6—4 foot. Our special price.. **5.00**

CORN HOOKS AND KNIVES

Little Giant Knife, oval wood handle **55c**

Black Diamond Knife, 15-in. blade, 3 in. wide **40c**

Field King Hook (Quynn Pattern) **40c**

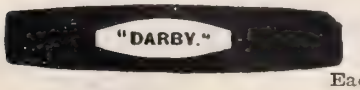
Brook's Hook (Corrugated) **50c**

Village Blacksmith No. 1 ..... **40c**

Village Blacksmith No. 300 ..... **60c**

Village Blacksmith No. 80 ..... **50c**

SCYTHE STONES



	Each
English Talacre	**$0.30**
Quinnebog	**.20**
Darby Creek	**.20**
No. 192 Carborundum Scythe Stone	**.35**

LAWN SETTEES

The frames are made from strong steel, and the seats and backs from smoothly finished hardwood.

Meadowbrook Settee

4 foot..... **$6.50**
5 foot..... **7.50**

Commonwealth Settees

4 foot **$6.00**
5 foot **7.00**

Universal Settee

4 foot..... **$3.25**

The Juvenile Settee

A small settee of good quality yet inexpensive, with a variety of uses such as fishing seats, extra automobile seats, etc., as well as being a great favorite with the kiddies.

Frame—1x¼ inch steel.

Slats—Eight in number, ⅞x1½ inch clear yellow pine with flat surfaces and rounded edges.

Color—Alternate Orange and Green.

22 inches..... **1.50**

32 inches **1.75**

PIKE SCYTHE STONES

TJ3—Abrasive	**$0.30**
TN15—English Round	**.30**
TS3—Rifle	**.20**
TS2—Quick Cut	**.15**
JD2—Utility File	**1.00**

CARRIAGE BOLTS

Length, Inches.	List, 100.	List, 100.	List, 100.	List, 100.	List, 100.
	¼	5/16	⅜	7/16	½
1¼	$1.00	$1.50	$1.95	$3.25	$4.00
1½	1.05	1.55	2.05	3.40	4.15
2	1.20	1.75	2.30	3.65	4.45
2½	1.35	2.00	2.55	3.95	4.80
3	1.50	2.20	2.80	4.25	5.15
3½	1.65	2.40	3.10	4.55	5.50
4	2.00	2.60	3.35	4.85	5.85
4½	2.15	2.95	3.60	5.15	6.20
5	2.30	3.15	3.95	5.45	6.55
5½	2.45	3.35	4.20	5.80	6.95
6	2.60	3.55	4.45	6.15	7.35
6½	3.65	4.90	6.30	8.25	9.75
7	3.85	5.15	6.65	8.70	10.20
7½	4.00	5.35	6.95	9.15	10.65
8	4.20	5.60	7.30	9.60	11.10
8½	4.35	5.80	7.60	10.05	12.05
9	4.55	6.05	7.95	10.50	12.50
9½	4.70	6.25	8.25	10.95	12.95
10	4.90	6.50	8.60	11.40	13.40
11	5.25	6.95	9.30	12.25	14.30

All ¼ in. bolts 100 to package. Others 50 to package.

MACHINE BOLTS

Length, Inches.	List, 100.	List, 100.	List, 100.	List, 100.	List, 100.
	¼	5/16	⅜	7/16	½
1¼	$1.10	$1.60	$2.15	$3.70	$4.30
1½	1.15	1.70	2.30	3.85	4.50
2	1.30	1.95	2.55	4.10	4.85
2½	1.50	2.15	2.80	4.40	5.15
3	1.65	2.35	3.10	4.65	5.50
3½	1.80	2.55	3.35	4.95	5.85
4	2.15	2.75	3.60	5.25	6.20
4½	2.30	3.10	3.85	5.55	6.55
5	2.45	3.30	4.20	5.85	6.90
5½	2.60	3.50	4.45	6.15	7.25
6	2.75	3.70	4.70	6.45	7.60
6½	3.80	5.10	6.50	9.20	10.15
7	4.00	5.35	6.85	9.65	10.60
7½	4.15	5.55	7.15	10.10	11.05
8	4.35	5.80	7.50	10.55	11.50
8½	4.50	6.00	7.80	11.00	11.95
9	4.70	6.25	8.15	11.45	12.40
9½	4.85	6.45	8.45	11.95	12.85
10	5.05	6.70	8.80	12.35	13.30
11	5.40	7.15	9.50	13.20	14.70

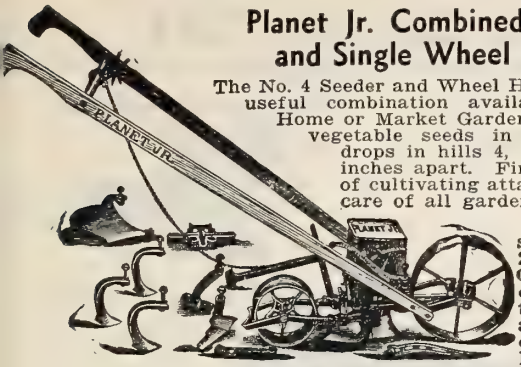
All ¼-in. bolts 100 to package. Others 50 to package.

PLOW BOLTS

Lengths Inches	Nos. 1, 2, 3 and 7			4, 5, 6 and 8		
	List	List	List	List	List	List
	⅜	7/16	½	⅜	7/16	½
1¼	$2.75	$3.75	$5.25	$3.35	$4.50	$6.20
1½	2.90	4.00	5.50	3.50	4.75	6.45
1¾	3.05	4.25	5.75	3.65	5.00	6.70
2	3.20	4.50	6.00	3.80	5.25	6.95
2¼	3.35	4.75	6.30	3.95	5.50	7.25
2½	3.50	5.00	6.60	4.10	5.75	7.55
2¾	3.75	5.30	6.90	4.35	6.05	7.85
3	4.00	5.65	7.25	4.60	6.40	8.20
3½	4.90	6.45	7.65	5.50	7.20	8.60
Add for List Thread	.30	.40	.55	.30	.40	.55

All plow bolts 50 to package.

Planet Jr. Combined Seeder and Single Wheel Hoe No. 4



The No. 4 Seeder and Wheel Hoe is the most useful combination available for the Home or Market Gardener. Sows all vegetable seeds in the drill or drops in hills 4, 6, 8, 12 or 24 inches apart. Fine assortment of cultivating attachments take care of all garden work.

Capacity of seed hopper 2½ quarts. Quickly changed from hill to drill seeder and from seeder to wheel hoe.

No. 4 Hill and Drill Seeder and Single Wheel Hoe Combined **$16.75**
No. 4-D Seeder only **13.50**

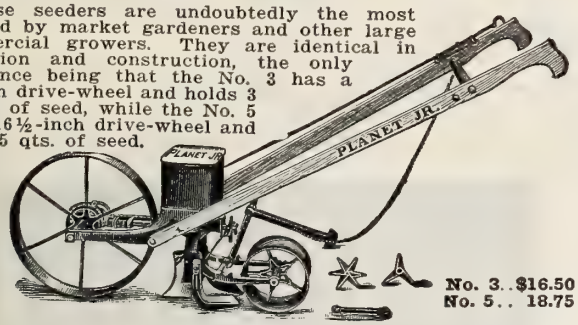
No. 25 Hill and Drill Seeder Double and Single Wheel Hoe Combined

Price, $21.00

The "Complete Gardener." Sows all vegetable seed in the drill and drops in hills 2, 6, 8, 12 and 24 inches apart. As a Double Wheel Hoe it straddles the row, cultivating both sides at one time until the plants are 20 in. high. Cultivating attachments consist of 1 pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth and a pair of leaf lifters.

Nos. 3 & 5 Planet Jr. Hill and Drill Seeder

These seeders are undoubtedly the most favored by market gardeners and other large commercial growers. They are identical in operation and construction, the only difference being that the No. 3 has a 15-inch drive-wheel and holds 3 quarts of seed, while the No. 5 has a 16½-inch drive-wheel and holds 5 qts. of seed.



No. 3..$16.50
No. 5.. 18.75

No. 300 Planet Jr. Drill Seeder

Capacity 4 Quarts

Price, $18.75

There has always been a demand for a quality seeder which will sow through holes in a plate rather than through a variable diamond-shaped opening.

Accurate Seeding

The seed is pushed through a hole in the plate by a patented feed wheel of a new type.

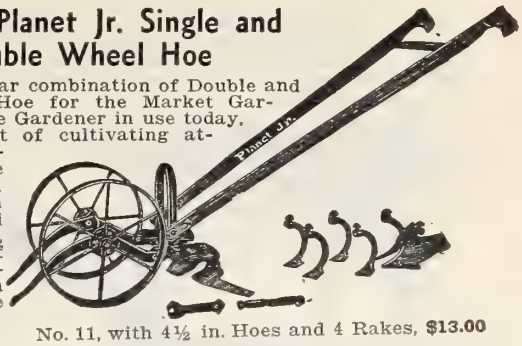
No. 19 Garden Plow and Cultivator

Packed Weight 18 lbs. 15-inch steel wheel.

Equipment—1 2-in. cultivating tooth; 1 10-in. sweep; 1 plow; 1 5-prong cultivating attachment.

Price, $4.75

No. 12 Planet Jr. Single and Double Wheel Hoe



The most popular combination of Double and Single Wheel Hoe for the Market Gardener and Home Gardener in use today. The assortment of cultivating attachments consisting of one pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth, and 1 pair of leaf lifters. Cultivates both sides at one time.

Price, $10.25 No. 11, with 4½ in. Hoes and 4 Rakes, **$13.00**

No. 17 Planet Jr. Single Wheel Hoe

As Illustrated, $7.35
No. 16—With Rakes and Leaf Guard, **$8.50**
No. 18—With 2 6-inch Hoes only, **$5.50**

Fire Fly Garden Plow

This is an exceedingly useful tool to owners of small gardens. It will throw a furrow 4 to 6 in. wide and 1 to 3 inches deep.

Price $4.00

No. 119 Planet Jr. Garden Plow and Cultivator

Equipment
One 1¼-inch cultivat'g tooth.
One 4-inch cultivating tooth.
One plow.
One reversible scuffle blade.
Price, $3.65

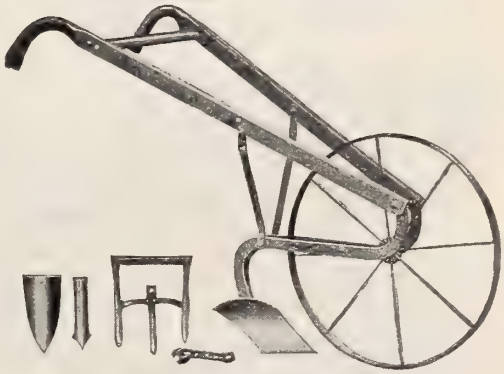
No. 119 has a wheel, with $\frac{3}{16}$x⅜ inch steel spokes, very strong, **24 inches in diameter.** Furnished with Norcross 5-tooth weeder attachment in place of scuffle blade as 119W.

Price, $3.90

Planet Jr. Five-Tooth Weeder Attachment

Can be attached to any of the Garden Plows.
Price, $1.00 each.
Regular Five-Tooth Attachment, 80c

"Oriole" Garden Plow



Complete
As Shown
No. 1—Price, $3.00

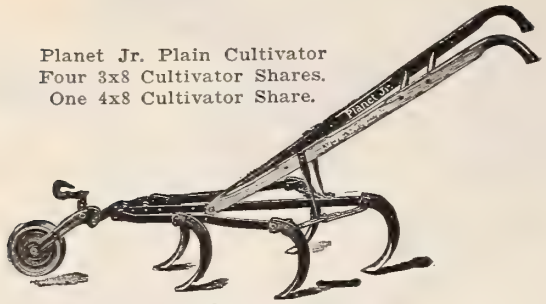
No. 2—With 5-tooth Weeder attached instead of scuffle blade, $3.25

PLANET JR. HORSE HOES AND CULTIVATORS

It is an unquestioned fact that Planet Jr. horse-drawn cultivating implements are more universally known, and bear a higher reputation for quality, than any other cultivating machines ever made.

PLANET JR. CULTIVATOR

Planet Jr. Plain Cultivator
Four 3x8 Cultivator Shares.
One 4x8 Cultivator Share.



No. 4—With Steel Wheel.....$9.45
No. 4D—Cultivator without Wheel..... 7.70
No. 9—With Lever and Wheel.....11.50
No. 9D—With Lever, no Wheel..... 9.75

PLANET JR. HORSE HOE

Planet Jr. Horse Hoe
Equipment:
Four 3x8 Steels
One 4x8 Steel
One pair 6" Hillers
One 7" Shovel
Lever Expander

No. 9—With Steel Wheel.....$12.75
No. 9D—Less Steel Wheel..... 11.00
No. 8—With Wheel and Lever Wheel..... 14.70
Vineturned adds..... 2.50
Roller adds..... 4.25
Steel Wheel as an extra..... 1.75

NO. 90 PLANET JR. 12-TOOTH HARROW, CULTIVATOR AND PULVERIZER

No. 90 Complete, as shown, $15.50

No. 90B—Less Pulverizer $12.75
No. 90D—Less Pulverizer and Wheel..... 10.00

Shovel Steels Fit All Planet Jr. One and Two Horse Cultivators

	Price
7-inch Shovel, Steel, No. 2539	$0.35
8-inch Shovel Steel, No. 2540	.40
6-inch Hillers, No. 1167/8, per pair	1.20
6-inch Hillers, with connecting pieces, per pair	2.00
7-inch Plows, No. 495/6, per pair	1.50
7-inch Plows, with connecting pieces, per pair	2.30

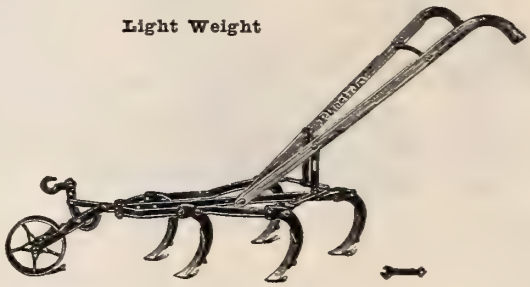
FIRE FLY STEELS (Planet Jr.)

	Price
1 x8 No. 4639	$0.12
1¼x8 No. 4640	.13
1¾x8 No. 4641	.14
2 x8 No. 4638	.15
2¼x8 No. 4642	.16
3 x8 No. 4643	.17
4 x8 No. 4644	.19

Planet Jr. Bolts, 1¾, 3½c; 2½, 4c; 3, 5c.

PLANET JR. CULTIVATOR

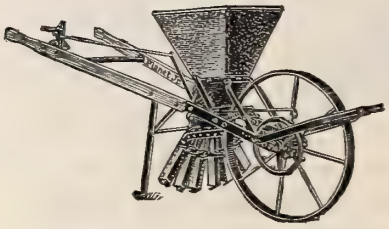
Light Weight



No. 100D—Light Cultivator, no Wheel.....$6.75
No. 101—Light Cultivator with Lever and Wheel..... 9.90
No. 101D—Light Cultivator, with Lever, no Wheel..... 8.30

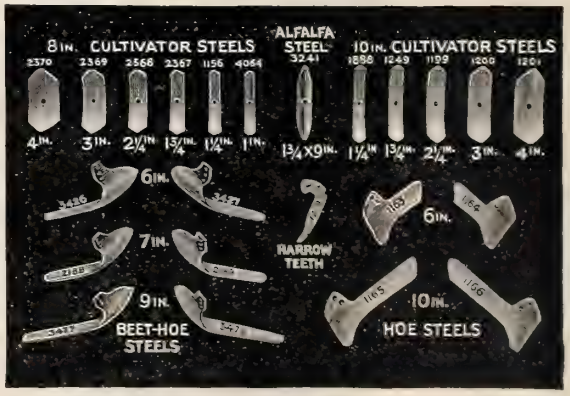
NO. 220 PLANET, JR.

Saves Time, Labor—Produces Bigger Crops



The No. 220 will distribute fertilizer in the middles of three rows 12 to 14 inches apart; it will side-dress one side each of two rows up to 36 inches apart (one complete row) and corn in wider rows. You can use it in very narrow rows—as close as 9 inches. You can use it in 42 to 48-inch rows by closing off the flow in three spouts and distributing through the other three—either on the right or left-hand side.

It will distribute **100 to 2,000 pounds of commercial fertilizer to the acre.** The shut-off rod is operated without stopping the distributor. **Price**..... **$26.00**



8-inch Steels Fit Planet Jr. Horse Hoes, Plain Cultivators and No. 72 Pivot Wheel Cultivator

	Price
1 x 8-inch Steels, No. 4064	$0.15
1¼ x 8-inch Steels, No. 1156	.16
1¾ x 8-inch Steels, No. 2367	.17
2¼ x 8-inch Steels, No. 2368	.18
3 x 8-inch Steels, No. 2369	.20
4 x 8-inch Steels, No. 2370	.25

10-inch Steels Fit All Planet Jr. Two-Horse Cultivators Excepting No. 72

1¼ x 10-inch Steels, No. 1888	$0.18
1¾ x 10-inch Steels, No. 1249	.20
2¼ x 10-inch Steels, No. 1199	.22
3 x 10-inch Steels, No. 1200	.26
4 x 10-inch Steels, No. 1201	.30

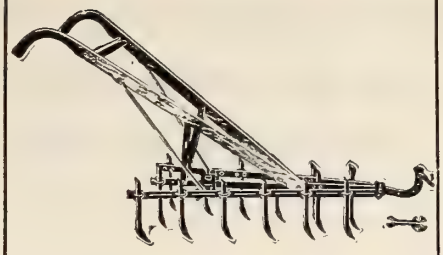
Hoe Steels Fit Planet Jr. Horse Hoe Side Standards

6-inch Hoe Steel and Bolt, No. 1163/4, Pair	$1.20
10-inch Hoe Steel and Bolt, No. 1165/6, Pair	1.40

OLD DOMINION (Straight Frame) AND ORIOLE (Bent Frame) CULTIVATORS

With Outside Handle Braces and Wheel Clamp

Cultivator, plain	$5.60
Cultivator with Lever	6.60
Wheels for Cultivators, each	.90



COMBINED HARROW AND CULTIVATOR

14 Tooth—With Outside Handle Braces and Wheel Clamp

Price, without Lever	$7.00
Price, with Lever	8.00

MARYLAND LEVER CUTTER

Strong, cheap, and durable.

Price — $7.50

SHOVEL PLOWS

Farmers' Favorite, single-shovel plow	$4.60
Farmers' Favorite, double-shovel plow	5.00
Regular triple shovel plow	6.75

SIDEWALK CLEANERS

No. OSC—7-inch solid socket, handle	$1.15
No. 770—8-inch steel blade	.90

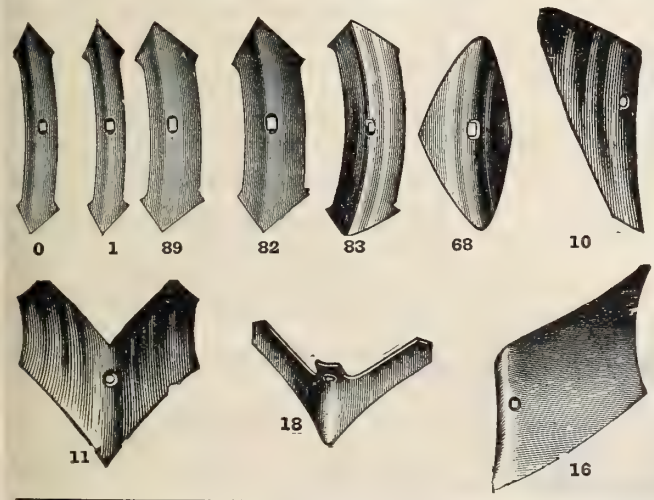
LIGHTNING PATTERN HAY KNIFE

$2.15

AMERICAN SICKLE EDGE HAY KNIFE

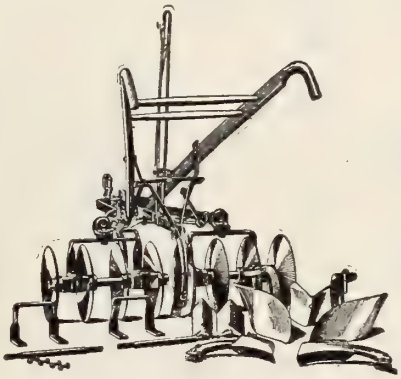
$2.15

CULTIVATOR STEELS



Cultivator Handles, complete, per pair	$1.50
Handles for single, double or triple shovel plows, complete with round and rod, per set	1.50

Frank Beasley's Patent Disc Attachments



To fit any five-tooth cultivator.

If you have a good five-tooth cultivator, you can secure these parts to attach to same and make your old cultivator as up-to-date as it would be possible to have it. These Disc Attachments come in gangs of either six or eight discs or can be had in combination of six and eight discs.

These disc gangs are sometimes used on fertilizer distributors with fine results.

Six-Disc Attachment, weight 43 pounds	$8.75
Eight-Disc Attachment, weight 53 pounds	10.75
Combination 6 and 8 Disc Attachment	12.00
Disc Cultivator complete, 8 disc and standards for five-tooth and wheel	$25.25

Steels for Riding and Walking Cultivators

	Per 100
No. 0—1¼x8	$11.00
No. 1—2x8	13.00
No. 89—2½x8	14.40
No. 82—3x8	15.00
No. 83—3½x8	17.50
No. 84—4x8	19.00
No. 10—Turn shovel	24.00
No. 16—Turn shovel	24.00
No. 11—6-in. sweep	35.00
No. 11—8-in. sweep	40.00

	Each
No. 12—Horse hoe, steel	.65
No. 18—6-in. sweep	.25
No. 18—8-in. sweep	.30
No. 18—10-in. sweep	.34
No. 18—12-in. sweep	.36
No. 18—15-in. sweep	.43
Wheels for Cultivator	1.00
Plate Bolts, 1½	$1.70 per 100
Plate Bolts, 2	1.80 per 100
Plate Bolts 2½	2.00 per 100
Wheel Cultivator Clamps	.48
Horse Hoe Attachments, complete, per set of three pieces	2.40
Teeth for Baltimore Combined Harrow	.12

	Each
1¼x10 inches	$0.15
1½x10 inches	.16
2 x10 inches	.17
2½x10 inches	.18
3 x10 inches	.19
3½x10 inches	.22
4 x10 inches	.24

WITH BACKS

1½x10½ inches	$0.40
2 x10½ inches	.44
2½x10½ inches	.48
3 x10½ inches	.50
3½x10½ inches	.58
5 x11 inches	.65

SHOVEL PLOW STEELS

FF Triple Shovel Steels, sizes 4x7, 4½x7, 5x8, 5½x8, per pound	$0.13
FF Double Shovel Steels, sizes 5x10, 6x10, 7x10, 8x10, per pound	.12
FF Single Shovel Blades, all sizes, per pound	.12

GENUINE OLIVER CHILLED PLOWS

WHEN ORDERING PLOWS AND REPAIRS STATE RIGHT OR LEFT HAND, WOOD OR STEEL BEAMS

Plow Base	S. B. Plow	W. B. Plow	S. B. Comb. Plow	Plain Share	Slip Share	Lands	Moulds	Steel Moulds	Steel Shares	S. B. Standard	W. B. Standard	Wood Beams
Goober	$10.25			$0.25		$0.50	$1.50			$2.25		
No. 6	9.00			.25		.50	1.45			1.50		
A-C-2	11.25			.30	$0.45	.55	1.60			2.25	$2.80	$3.85
B-C-N	14.00	$13.50		.40	.60	.75	2.05			2.35	3.20	3.85
10-N	16.00	16.00		.45	.60	.80	2.25			3.00	3.20	3.85
13-N	18.00	18.00	$20.00	.55	.70	.95	3.00	$6.50	$3.00	3.25	3.55	3.85
19-N	19.00	19.00	21.00	.60	.75	1.00	3.25	7.50	3.25	3.25	3.95	4.15
20-N	21.00	21.00	23.50	.65	.80	1.05	3.40	8.50	4.25	3.50	4.15	4.15
E-I-N		24.00		.75	.90	1.10	3.75				4.50	4.15
30				.60		1.10	3.75					
40-N	23.50	23.50		.75	.85	1.10	3.75			3.75	4.70	4.15
40-XX		26.00		.90	1.05	1.10	4.60				4.70	4.95
82-N	21.00			.80	.90	1.45	4.00			4.75		
83-N	23.00			.90	1.00	1.45	4.50			4.80		
84-N-12"	24.50			.90	1.00	1.45	5.00			4.80		
84-14"				1.05		1.45	5.00			4.80		
91				.90	1.00	1.45	5.00			4.80		
512 Hillside	25.00			.90		1.10	3.75			6.25		
513 Hillside	25.50			.95		1.10	4.10			6.25		
524 Hillside	23.50			.95		1.10	4.10			8.25		
A-2				.25		.55	1.60			2.65	2.90	
3-X				1.05		1.60	5.80					
98		23.50		.55		1.45	4.75				6.00	4.15
99				.60		1.45	5.00					
F-905-A Short						.55						
F-926-A Long						1.20						
NC-23-12" Q. D.				1.40					2.75			
NC-23-14" Q. D.				1.60					3.00			
NC-23-16" Q. D.				1.90					3.50			
NC-3-18" Q. D.				1.90					4.25			

WHEELS AND PARTS

Complete, A to 13	$1.95
Complete, 19 to 84	2.20
Complete, A to 13	1.65
Complete, 19 to 40	2.50
Standards, one-horse, straight	1.00
Standards, two-horse, arch	2.20
Wheels, only, one-horse	.55
Wheels only, two-horse	.85
Wheel hub	.30
Wheel hub bolt	.05

JOINTER AND PARTS

Steel Beams, 10 and 13	$3.85
Steel Beams, 19 to 40	4.95
Wood Beams, 10 and 13	3.60
Wood Beams, 19 to 40	3.85
Jointer Points	.20
Jointer Moulds	.40

OLIVER COULTERS

11-inch Coulter	$5.30
13-inch Coulter	5.60

("Moon" Coulters, see page 106)

CLEVISES

Wood Beam—	Price
A, for A-B-10 Plow	$0.25
B, for 13-19-20 Plow	.60
D, for 40 Plow	1.10
Steel Beam—	
No. 2, for A-C, B-C Plow	.95
No. 90A, for 10-13-19-20 Plow	1.30
No. 91, for 40 Plow	1.65
WOOD HANDLES (Single)	.85
Handle Rounds, each	.10
Sets, all numbers up to 10	2.20
Sets, all numbers, 13 and above	2.75

(State if old or new style handles).

OLIVER STEEL BEAM PLOW

BOLTS

Share	$0.05
Mould and land	.05
Main Beam	.15
Back Beam	.10

PLOWS

Wiard Steel Beam Plows and Extras (Subject to Stock)	Plain Plow	Plain Shares	Slip Nose Shares	Moulds	Lands	Shoes for Lands	Shins or Cutters
No. 16	----	$0.65	$0.75	$4.00	$1.10	----	-
No. 25	----	.70	.85	5.00	1.40	----	$0.75
No. 27	---	.75	.90	5.00	1.40		.75
No. 43		.70	.85	4.50	1.25*	$0.70	.75
No. 44	$21.50	.75	.90	5.00	1.25*	.70	.75
No. 65		1.15		6.00	2.00		
No. 80	22.00	.75	.90	5.00	1.00	.70	.75
No. 90		.75	.90	5.00	1.00	.70	.75
No. 104	19.75	.75	.90	5.00	1.25*	.70	.75
No. 106	25.00	.80	.95	5.25	1.25*	.70	.75
No. 115X	21.00	.85	----	4.50		1.25	----
No. 116	--	.95	----	5.50	----	1.25	----
No. 126	--	.95	----	4.50	-	1.25	----
No. 214	----	.40	-	2.25	.85	----	--
No. 219		.70	1.00	3.75	1.20	----	----
No. 240	24.00	.80	1.00	4.50	1.25	----	----
No. 440	24.00	.80		4.50	1.25	----	
No. 522		.65	.80	4.00	1.25	----	.75
No. 524	19.75	.70	.85	4.50	1.25	----	.75
No. 526	21.50	.75	.90	5.00	1.25	----	.80
No. 546	20.25	.75	.90	5.00	1.25	----	.80
No. 548	23.50	.80	.95	5.25	1.25	----	.80

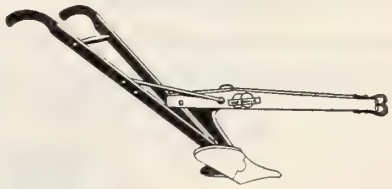
*Solid or One-Piece Lands for Nos. 43, 44, 103, 104, and 106, **$1.50.** Wheels complete, **$1.50.** Steel Beam Jointers, **$4.00.** Slips, **15c.** Jointer Points, **25c.**
No. 546, Sulky Plow, **$50.00.**

Syracuse Plows and Repairs	Plain Plow	Plain Shares	Coulter and Slip Shares	Moulds	Lands
No. 1-78 Regular	$18.75	$0.65	$0.80	$4.31	$0.97
No. 1-78 Contractor	----	.80	- -	5.75	1.55
No. 2-78	17.25	.60	.75	3.50	.88
No. 10-78	21.50	.71		4.68	1.08
No. 20-78	18.75	.65	.80	4.00	.88
No. 30-78	21.75	.70	.85	4.30	1.02
No. 35	----	1.10	- -	6.25	2.00
No. 95	----	.60	.75	3.30	1.02
No. 96	----	.65	.80	3.45	1.10
No. 97	----	.75	.85	3.55	1.20
No. 501	21.00	.70	.85	5.50	1.38
No. 502	20.00	.65	.80	5.00	1.38
No. 503	- -	.65	.80	3.40	1.30
No. 601	21.00	.70	.85	5.50	1.38
No. 602	20.00	.65	.80	5.00	1.38
No. 603	16.75	.65	.80	3.40	1.30
No. X1341 Q. D.	----	.75	.90	5.25	----
No. X1342 Q. D.	----	.70	.85	4.75	----
No. X1441 Q. D.	----	.75	.90	5.25	----
No. X1442 Q. D.	----	.70	.85	4.75	----
Nos. 361, 461, 1361, 1461	- -	.70	.85	3.80	1.02
Nos. 362, 462, 1362, 1462	----	.65	.80	3.45	1.02
Nos. 363, 463, 1363, 1463	----	.65	.80	3.45	.97

FARMERS' FRIEND PLOW

No. ½	$5.50
No. 5	5.50
No. 1 Hillside	8.50
Plain Castings, per lb.	.06
Polished Castings, per lb.	.08

DIXIE PLOW



"Boy" Dixie	$4.10
No. X	$5.50
No. I	5.75
No. II	7.50
Plain Castings, per lb.	.06

WHITE'S CLIPPER PLOW

No. 2, Cast, One-Horse	$5.50
No. 12, Cast, Two-Horse	10.50
Castings for Clipper Plow, per lb.	.06½
Polished Castings, per lb.	.08¼

"GIRL" CHAMPION PLOW
(WHITE'S)

No. "Girl"	$5.00
No. A	5.50
No. 2	6.00
Castings, Plain, per lb.	.06½
Castings, Polished, per lb.	.08½

Jointer Points, **25c.** Wheels only, complete, **$1.20.**

WIARD REPAIRS (Not Genuine)

	Shares	Slip Shares	Lands	Solid Lands	Moulds	Shoes	Shins
27-28	$0.65	$0.75	$1.25	$1.40			
80-81	.65	.75	.85	1.40	3.75	.55	.55
103-104	.65	.75	1.10	1.45	3.75	.55	.55
106	.70	.80	1.10	1.45	4.00	.55	.55
70-71-90-91	.65	Wheels only, **70c.**					
25-26	.65	Wheel Spindles, **20c.**					
43-44	.65	Wheel Bolts, **6c.**					
115-120	.75	Wheel Sand Cap, **5c.**					
116	.80	Jointer Points, **20c.**					
126	.80	"W" Slip, **15c.**					

MASSEY-HARRIS REPAIRS FOR PLOWS
(Formerly Case)

Plow	Cast Share Brand	Price	Steel Share Brand	Prices Solid	Prices Hard
480½ GEX	GM 0	$1.40	10 G	$2.50	$4.25
482½ GEX	GM 2	1.60	12 G	3.00	4.75
484½ GEX	GM 4	1.80	14 G	3.50	5.50
510½ GPX	GP 0	1.40	GP 10	2.50	4.25
512½ GPX	GP 2	1.60	GP 12	3.00	4.75
514½ GPX	GP 4	1.80	GP 14	3.50	5.50
SG 12	SG 2	1.60	SG 12	3.00	4.75
SG 14	SG 4	1.80	SG 14	3.50	5.50
SG 16	SG 6	2.00	SG 16	4.50	6.00

LYNCHBURG PLOWS AND REPAIRS

	Plows	Shares	Slip Shares	Lands	Moulds
No. 2	$8.00	$0.21	....	$0.42	$1.35
No. 6X	10.00	.28	.42	.51	1.50
No. 27X	15.50	.51	.65	.88	2.75
No. 42	18.00	.60	.75	.97	3.15
No. 52	21.00	.70	.80	1.02	3.45
No. 37X	----	.55	.70	.92	3.00

REPAIRS TO FIT CHATTANOOGA PLOWS

	Shares	Lands	Moulds
44	$0.51	$0.92	$2.75
62	.23	.51	1.40
63	.42	.78	2.10
64 R. & L.	.51	.92	2.75
65 R. & L.	.60	1.06	3.15
66 R. & L.	.65	1.06	3.30
70	.23	.51	1.35
71	.28	.51	1.40
72	.28	.51	1.50

R. H. 65 Slip Shares	78c
C. P. 4166, Slips for same	15c

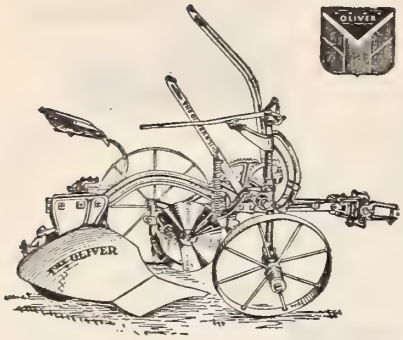
REPAIRS TO FIT INTERNATIONAL PLOWS

Shares		Lands		Moulds	
6002 R. H.	$0.83	6021 R. H.	$1.35	CP6008 R. H.	$4.65
6007 R. H.	.83	6022 L. H.	1.35	CP6009 R. H.	4.90
6027 L. H.	.83	6001 M. R. H.	.92	CP6103 L. H.	4.65
6028 L. H.	.83	6001 R. H.	.55	CP6104 L. H.	4.90

Jointer Points, **20c.** Shins, **35c.**

SOUTH BEND REPAIRS—PAGE 105

THE OLIVER SULKY

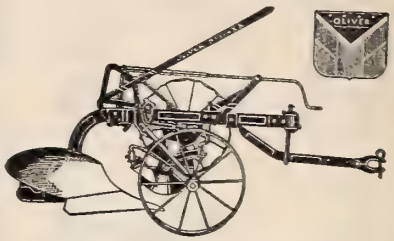


This Sulky is the most popular plow of its kind ever built. Turns square in-and-out corners with the bottoms cutting full width and depth.

FURNISHED IN BOTH RIGHT AND LEFT HAND

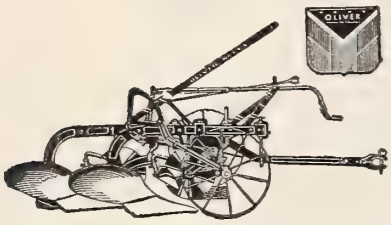
Regularly equipped with steel evener and No. 90 Chilled Jointer and Weed Hook

	Price
All Chilled, 12-inch, weight 431 lbs.	$67.00
All Chilled, 14-inch, weight 446 lbs.	68.50
For tongue and neckyoke, add	4.25
For combination rolling coulter instead of jointer, add	3.00
For plain rolling coulter instead of jointer, add	.75
Weed Hook, deduct	.50
3 Horse Evener not taken, deduct	4.00



134X Tractor Sulky 18-inch, $94.00

OLIVER No. 9-XX ADJUSTABLE TRACTOR PLOW



The Oliver No. 9-XX adjustable plow can be set so that the bottoms will cut 11, 12, 13 or 14 inches. When the ground is hard and plowing is difficult the bottoms can be set to cut narrow. The adjustment is made by expanding or closing the frame.

An easily operated plow. A trip rod for the power lift. The Oliver No. 9-XX has unusual clearance under the beams and between the bottoms. **Price** **$90.00**

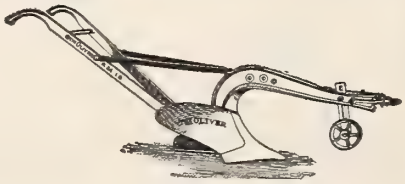
Write for Special Circular

OLIVER No. 109 TRACTOR PLOW

The Oliver No. 109 Tractor Gang does a fine job of covering surface trash. Operating behind light to medium powered tractors, it will give years of dependable, trouble-free service. The whole plow is built to stand up under heavy duty service. Adjustable frame of the No. 109 allows for an 11, 12, 13, or 14-inch cut. It can be quickly changed to meet a wide variety of soil and plowing conditions.

A rear furrow wheel, spring locked to facilitate backing the plow, is standard equipment. **Price** **$96.00**

OLIVER No. 24 GRADING PLOW

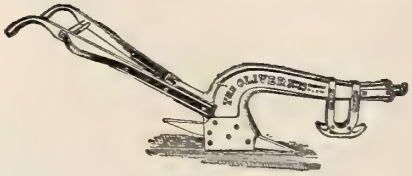


An extremely strong iron beam plow for road breaking, excavation work or the heaviest of field work. The beam standard and frog are one piece. This plow has a chilled mouldboard and a deep suck cutter share.

No. 24—Iron Beam, equipped with a gauge iron, instead of wheel **$29.50**

No. 1-78—Syracuse Grading Plow with wheel **27.75**

OLIVER No. 25 PAVEMENT PLOW



A popular plow for tearing up macadamized roads, streets, gravel roads, etc. Built extra strong and rigid, the beam standard and handle braces are cast in one piece. The pick is both reversible and adjustable. All wearing parts are renewable.

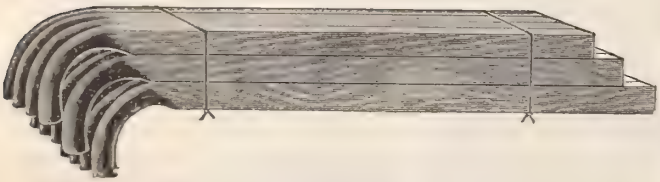
Regularly equipped with a gauge iron.

No. 25—Pavement Plow, price **$36.00**

Reversible Steel point or spike, price **4.00**

No. 98—Syracuse Pavement Plow with gauge iron **34.75**

PLOW HANDLES—Dressed



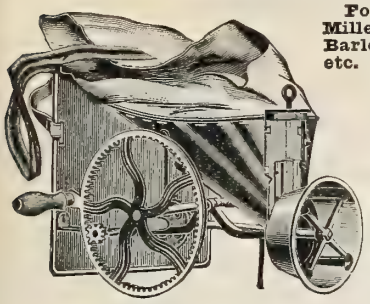
1⅛x2 inches, 5 feet long, per pair	$0.60
1¼x2¼ inches, 5 feet long, per pair	.68
1¼x2¼ inches, 6 feet long, per pair	.90
1½x2⅝ inches, 5 feet long, per pair	.90
1⅛x2 inches, Side Bend, per pair	.68

REPAIRS TO FIT SOUTH BEND PLOWS

	Shares	Lands	Moulds	Shoes
B1	$0.30	$0.56	$1.70	—
B1X	.34	—	—	—
2	.38	.75	2.25	.25
2X	.41	.75	2.25	—
2F	.38	.75	2.45	.25
2½	.45	.83	2.63	.25
2½X	.50	.83	2.63	—
2½F	.45	.83	2.81	.25
3	.50	.94	3.00	.30
3X	.53	.94	3.00	—
3F	.50	.94	3.20	.30
R4X	.60	1.01	3.26	—
63	.20	.53	1.50	—
63X	.23	.53	1.50	—

Jointer Points, 25c; Jointer Molds, 25c; Bolts, 4c.

CAHOON'S BROADCAST SEED SOWER



For sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, etc. Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate—Brass Discharger.

The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 ft. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet. Parcel post weight, 8 lbs.

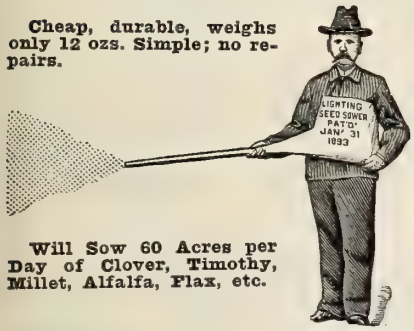
PRICE, $5.00

THE ORIGINAL IMPROVED CYCLONE

It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we cannot recommend the CYCLONE too highly. Parcel Post weight, 6 lbs. **PRICE, $2.50.**

LIGHTNING SEED SOWER

Cheap, durable, weighs only 12 ozs. Simple; no repairs.



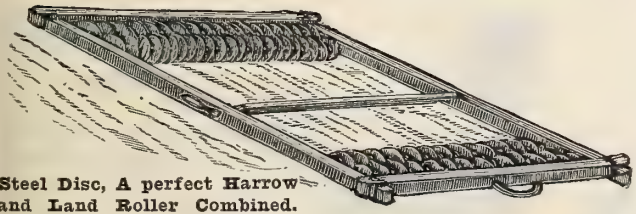
Will Sow 60 Acres per Day of Clover, Timothy, Millet, Alfalfa, Flax, etc.

Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube and the wind has no chance to blow seed into bunches before it strikes the ground.

PRICE, $1.00.

Parcel Post wt., 1 lb.

MEEKER SMOOTHING DISC HARROW



Steel Disc, A perfect Harrow and Land Roller Combined.

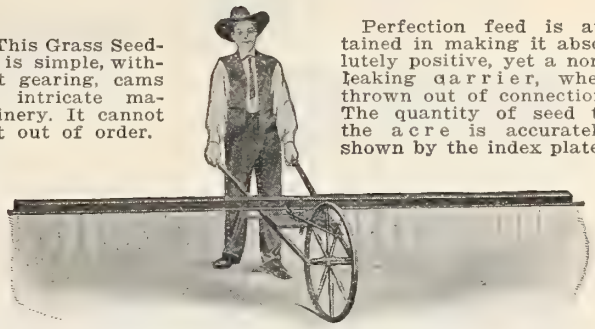
The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 68 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth, and doing its work far better than the rake.

Our Special Price.....$33.50

THOMPSON'S CLOVER AND GRASS SEEDER

Sows 14 to 16 feet Wide, Any Amount Desired Per Acre. Will Sow 20 to 25 Acres Per Day.

This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order.



Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier, when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate.

Rope Feed Seeder

It is strong, yet weighs but 40 pounds.
No. 1—14-foot, single hopper, **$14.40**
No. 1—16-foot, single hopper, **15.20**

No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot. **$16.00.**

THOMPSON'S ROYAL CLOVER AND GRASS SEEDER

These Seeders are similar to the Thompson above, except they have **Chain Feed.**

No. 11—14 ft., single hopper	**$14.40**
No. 11—16 ft., single hopper	**15.20**
No. 12—14 ft., double hopper	**16.00**
No. 10—10 ft., double hopper, Universal Seeder for all grass seeds, grain, cow peas and soy beans	**18.00**

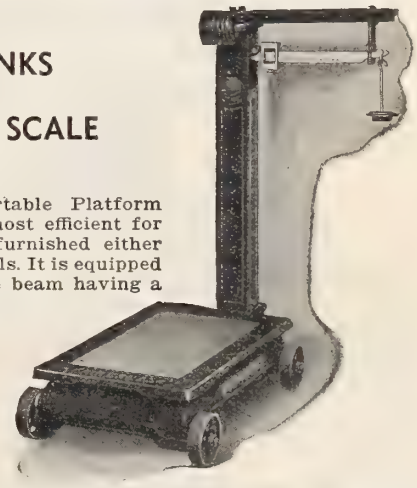
THOMPSON'S GOLF SPECIAL SEEDER

Golf greens, fairways and lawns must be seeded evenly to produce the desired uniform turf.

Thompson Golf Special Seeders are used on America's leading golf courses and private estates because they are speedy, accurate and economical. Wind or mud do not interfere with their accurate work because they sow close to the ground and cannot clog.

No. 106 Seeder, 10-ft. hopper, weight, 60 lbs.....$26.00

FAIRBANKS PORTABLE SCALE

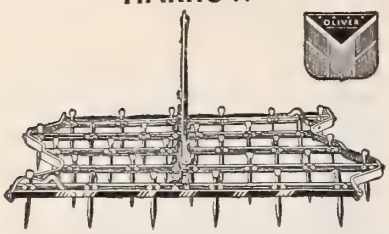


This type of Portable Platform Scale is one of the most efficient for general use and is furnished either with or without wheels. It is equipped with **arrow-tip** single beam having a center indicating sliding poise with set - screw, all of brass.

Durably and attractively finished in blue with bronze stripe, all well varnished for protection.

No. 1124, capacity 1000, size of platform 18x27 in., price **$27.70**
No. 1128, capacity 500, size of platform 16x25 in., price **24.25**

OLIVER U. B. C. SPIKE HARROW



Horse Harrow

Regularly equipped with evener bar

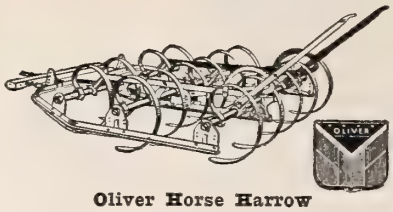
25-Tooth, 1-section, 93 lbs.	**$9.50**
30-Tooth, 1-section, 105 lbs.	**11.50**
50-Tooth, 2-section, 195 lbs.	**20.75**
60-Tooth, 2-section, 222 lbs.	**24.00**
75-Tooth, 3-section, 306 lbs.	**33.25**
90-Tooth, 3-section, 342 lbs.	**37.60**

Tractor Harrow

Regularly equipped with a tractor hitch.

90-Tooth, 3-section, 360 lbs.	**$39.00**

OLIVER SPRING-TOOTH HARROW



Oliver Horse Harrow

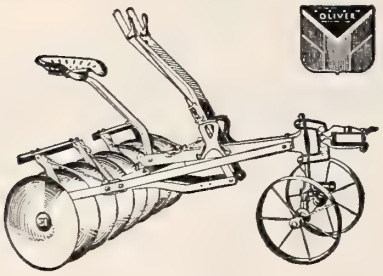
Oliver PE 3-Section Tractor Harrow

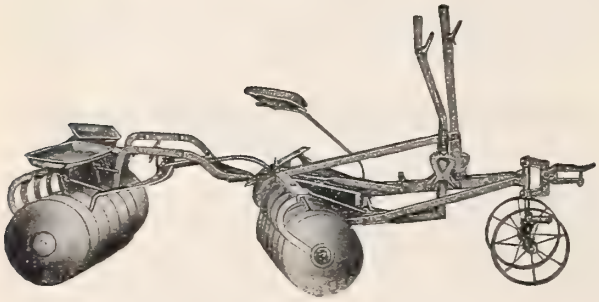
These are very strong and rugged implements well fitted for the hard work of spring-toothing. An inverted T-bar frame shod with a thick steel runner gives great strength and durability. Furnished with horse or tractor hitch. The levers are reversible and are set on the rear of the sections for horse use and on the front for tractor use.

HORSE HARROWS

9-Tooth, with handles and single tree, 3 ft. cut, 163 lbs.	**$17.00**
15-Tooth, 2-section with draw bar, 5 ft. 6 in. cut, 240 lbs.	**25.50**
17-Tooth, 2-section with draw bar, 5 ft. 10 in. cut, 253 lbs.	**27.00**
23-Tooth, 3-section with draw bar, 8 ft. 4 in. cut, 362 lbs.	**38.50**
25-Tooth, 3-section with draw bar, 8 ft. 8 in. cut, 375 lbs.	**40.50**

OLIVER HDH DISC HARROWS—SINGLE AND DOUBLE





SINGLE DISC HARROWS

Regularly equipped with hard oil cups, rigid scrapers, 2 or 3-horse evener, seat, rigid pole, and neck yoke.

Number	Number of Discs	Cut in Feet	Discs Size of	Weight	Price
HDH-4	8	4	16 in.	331 lbs.	**$46.00**
HDH-5	10	5	16 in.	377 lbs.	**49.50**
*HDH-6	12	6	16 in.	446 lbs.	**54.50**
HDH-4	8	4	18 in.	355 lbs.	**49.20**
HDH-5	10	5	18 in.	395 lbs.	**53.50**
*HDH-6	12	6	18 in.	471 lbs.	**59.00**

Foretruck in place of tongue add **$8.40**

(*) Equipped with off-set irons and 3-horse eveners.

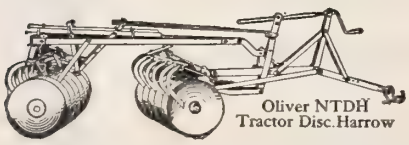
DOUBLE DISC HARROWS

Consists of single disc harrow and tandem complete, hard oil cups, rigid scrapers, 4-horse eveners, seat and forecarriage. No weight pans.

Number	Number of Discs	Cut in Feet	Size of Discs	Weight	Price
HDH-4	16	4	16 in.	691 lbs.	**$100.00**
HDH-5	20	5	16 in.	771 lbs.	**107.00**
HDH-6	24	6	16 in.	869 lbs.	**113.00**
HDH-4	16	4	18 in.	739 lbs.	**106.00**
HDH-5	20	5	18 in.	819 lbs.	**115.00**
HDH-6	24	6	18 in.	931 lbs.	**122.50**

OLIVER TRACTOR DISC HARROW

With Rigid Scrapers—Zerk Fittings



Oliver NTDH Tractor Disc Harrow

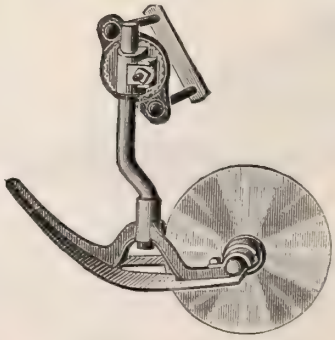
Number	Number of Discs	Size of Discs	Cut in	Weight	Price
NTDH-5	20	16 in.	5	647 lbs.	**$95.00**
NTDH-6	24	16 in.	6	738 lbs.	**103.00**
NTDH-7	28	16 in.	7	793 lbs.	**112.50**
NTDH-8	32	16 in.	8	1106 lbs.	**117.50**
NTDH-5	20	18 in.	5	688 lbs.	**102.50**
NTDH-6	24	18 in.	6	788 lbs.	**113.00**
NTDH-7	28	18 in.	7	848 lbs.	**125.00**
NTDH-8	32	18 in.	8	1170 lbs.	**130.00**

Harrows Can Be Furnished with 20-inch Discs at Additional Cost.

HEAVY DUTY TRACTOR HARROW

Adjustable Scrapers—Zerk Fittings

TDM—8 ft. 32x16 Metal Bearings, 1403 lbs.	**$152.00**
TDM—8 ft. 32x18 Metal Bearings, 1475 lbs.	**165.00**
TDW—8 ft. 32x16 Wood Bearings, 1379 lbs.	**150.00**
TDW—8 ft. 32x18 Wood Bearings, 1451 lbs.	**162.00**



"MOON" ROLLING COULTER

The shoe presses down all weeds and trash and holds same firmly while being cut by the coulter.

No. 1—8-inch disk	**$4.25**
No. 2—10-inch disk	**4.75**
No. 3—12-inch disk	**5.50**

Clark "CUTAWAY" FAMOUS DISK HARROW

CLARK "CUTAWAY" FLEXIBLE DOUBLE ACTION TRACTOR HARROW

Our new Flexible Double Action Tractor Harrow is the result of our many years' experience in building tractor disk harrows. While the frame permits extreme flexibility on rough ground and in turning, at the same time the harrow is very efficient and does high class work.

Size A-6, 24 disks, 16-in. dia., 6½-ft. cut, 755 lbs., price **$115.75**
Size A-7, 28 disks, 16-in. dia., 7½-ft. cut, 860 lbs., price **124.75**
Size X-6, 24 disks, 18-in. dia., 6½-ft. cut, price **125.25**
Size X-7, 28 disks, 18-in. dia., 7½-ft. cut, price **137.00**

CLARK "CUTAWAY" WONDER DISKER

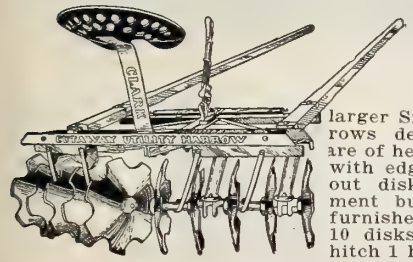
The All Purpose Disk

FULLY EQUIPPED

8 Heavy 24-inch Disks
Sturdy Weight Carriers
Rigid Scrapers
Reversible Gangs
Powerful Screw Control
Adjustable Hitch

	Price
8 disks, 24-in. dia., 5½-ft. cut, steel frame, 685 lbs.	**$110.70**
Steel weight box, extra, 90 lbs.	**6.25**

CLARK ONE-HORSE DISK HARROWS



The **CLARK "CUTAWAY"** Utility Harrow has 10 14-in. disks, cuts 4 feet wide. The gangs can be reversed in the same manner as the larger Single Action Disk Harrows described above. Disks are of heat-treated cutlery steel with edges forged sharp. Cut-out disks are regular equipment but solid disks will be furnished at the same price. 10 disks, 14-in. dia., 4-ft. cut, hitch 1 h., 200 lbs., price **$38.00**

WOOD FRAME HARROW, STEEL LINED

16-Tooth Harrows	**$17.50**
18-Tooth Harrows	**19.00**
20-Tooth Harrows	**20.75**
22-Tooth Harrows	**22.50**
24-Tooth Harrows	**24.00**

SINGLE ACTION DISK HARROW

The gangs on the **CLARK "CUTAWAY"** Single Action Harrow can be swung end for end, so that the soil may be thrown either out or in.

One of the outstanding features of all **CLARK "CUTAWAY"** Harrows is the quality of the disks. They are made of better steel than used in ordinary harrow disks but their strength and wearing qualities are greatly increased by forging the edge and heat-treating.

Solid Disks can be furnished at same price as Cutaway.

All disks on **CLARK "CUTAWAY"** Harrows are guaranteed for three years against breakage.

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Wt.	Price
A-4	8	16-in.	4-ft.	2-h.	255	**$45.50**
A-5	10	16-in.	5-ft.	2-h.	295	**50.75**
A-6	12	16-in.	6-ft.	3-h.	350	**57.00**
A-7	14	16-in.	7-ft.	4-h.	460	**67.50**
X-4	8	18-in.	4-ft.	2-h.	300	**49.25**
X-5	10	18-in.	5-ft.	2-h.	350	**55.75**
X-6	12	18-in.	6-ft.	4-h.	430	**67.75**
Extra for Tongue Truck						**10.50**

DOUBLE ACTION DISK HARROW

CLARK "CUTAWAY" Double Action Harrows are known for their light draft as well as for the amount and quality of work they do. All four gangs of disks are attached to one main frame. These harrows are also made with 18-in. disks and different hitches can be obtained on any sizes. Prices on application.

All disks are 16 inches in diameter; harrows hitch 4 horses.

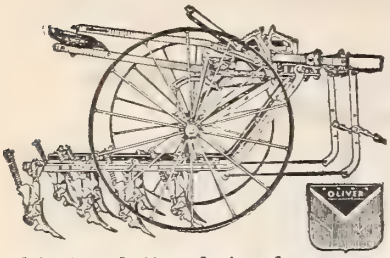
Size A-4, 16 disks, 4½-ft. cut, weight 480 lbs., price **$81.75**
Size A-5, 20 disks, 5½-ft. cut, weight 570 lbs., price **95.25**
Size A-6, 24 disks, 6½-ft. cut, weight 630 lbs., price **103.50**

NASH-ACME COULTER HARROW

Flexible construction permits the harrow section to conform more closely to the shape of the surface of the soil.

No. 12F—12 coulters, 6½ ft. cut, 2-horse, 2-section	**$ 30.00**
No. 16F—16 coulters, 8½ ft. cut, 2-horse, 2-section	**37.00**
No. 6—6 coulters, 3 ft. cut, 1-horse, 1-section	**18.00**
No. 8—8 coulters, 4 ft. 4 in. cut, 1-horse, 1-section	**23.00**
No. X6—24 coulters, 18 ft. 6½ in. cut	**120.00**
No. X7—29 coulters, 18 ft. 7½ in. cut	**130.00**
Coulters for all	**.85**

OLIVER NO. 35 CULTIVATOR



This Cultivator is built short and sturdy and the hitch is close and direct. The gangs extend back only a short distance beyond the wheels. This eliminates dipping and side-slipping and assures uniform work when going into depressions or over slight rises in the ground.

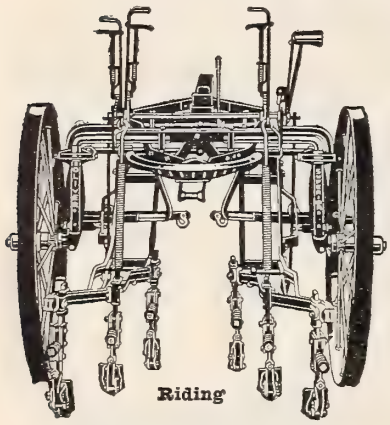
New and improved cultivator, better designed, more permanently constructed, easier operated—it is the Oliver No. 35.

Every farmer is entitled to have his cultivating work done easier. With the Oliver No. 35 it can be done both easier and better.

CRO35 6-shovel, pin break open sleeve round shank **$60.00**
DRO35 6-shovel, spring trip open sleeve round shank **65.25**
NRPO35 8-shovel, pin break open sleeve round shank **61.25**
NRPSO35 8-shovel, spring trip open sleeve round shank **69.50**

OLIVER SUPERIOR CULTIVATORS

(Famous Buckeye)



Riding

For 28 in. to 48 in. Rows

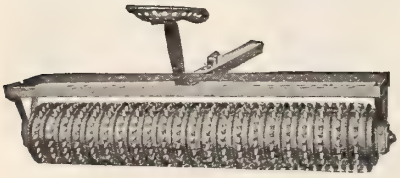
Round Shank—Open Sleeve

956½—6 shovel pin, $60.00

957½—6 shovel spring trip, $65.25

958½—8 shovel pin, $61.25

959½—8 shovel spring trip, $60.50



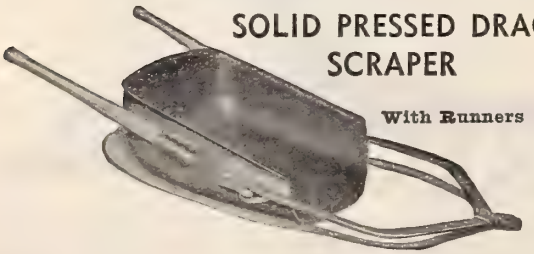
Lean Sprocket Pulverizer

Single Sections

8 Ft., 975 lbs. **$62.50**

Less Trees and Yoke

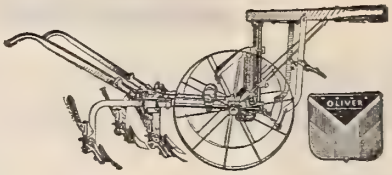
AMERICAN ROUND BACK SOLID PRESSED DRAG SCRAPER



With Runners

Size	Capacity	Weight	Price
No. 1	7 cu. ft.	97 lbs.	$9.20
No. 2	5 cu. ft.	86 lbs.	8.80
No. 3	3 cu. ft.	76 lbs.	8.50

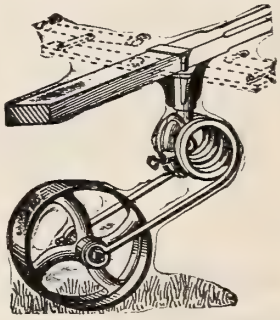
OLIVER NO. 2 IMPROVED CULTIVATOR



A popular and well-established favorite where either large or small acreages of cultivated crops are raised. Easy on the man because of the great ease with which it is handled. Lifting the gangs or shifting them to or from the row is an action almost without effort. Easy on the horses because of light draft, and there is no neck weight. There is not a single unnecessary part; there is nothing to get out of order.

No. 2 FEC Imp. 6-shovel, spring trip gangs, pipe beam **$51.50**
No. 2 FO Imp. 4-shovel, spring trip gangs, pipe beam **47.50**
No. 2 HO Imp. 6-shovel, pin break gangs, pipe beam **45.50**
No. 2 LPO Imp. 8-shovel, pin break gangs, channel beam **41.00**

KEYSTONE TONGUE SUPPORT

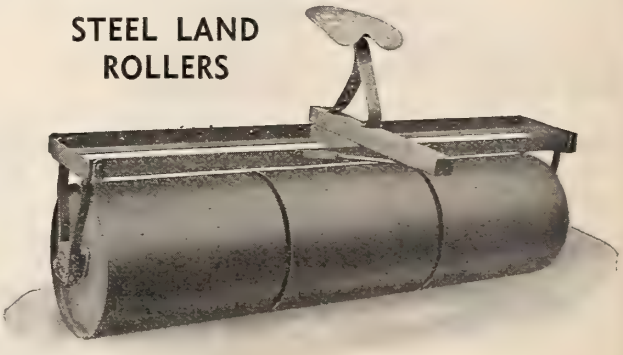


For Harvesting Machinery and Disk Harrows

This Tongue Support is simple and light in weight. The springs are made of best ⅝-inch spring steel. The coils are 4½ inches in diameter, and have arms extending 12 inches. The wheel is 11½ inches high, with 2¾-inch tread, thus assuring a light draft. No holes need to be bored in the tongue to fasten this support, thus allowing the tongue all its strength.

Price, $5.00.

STEEL LAND ROLLERS



	Sections	Length feet	Diameter inches	Weight lbs.	Special Price
No. 105½	2	8	24	550	$39.00
No. 106½	3	8	24	585	42.25

Price does not include Doubletrees and Neck Yoke.
Doubletrees and Neck Yoke $3.75

AMERICAN WHEEL SCRAPERS

Prices subect to stock on hand.

	Size of Bowl in. in. in.	Height of Wheels in.	Tires in. in.	Axle in.
No. 1 — 9 Cu. Ft.	35x34½x11½	36	2¾x¼	1⅜
No. 2 —13 Cu. Ft.	37x38 x13½	40	3 x⅜	1¾
No. 2½—14 Cu. Ft.	41x38 x13½	44	3 x⅜	1¾
No. 3 —16 Cu. Ft.	41x44 x16	46	3 x¾	1¾

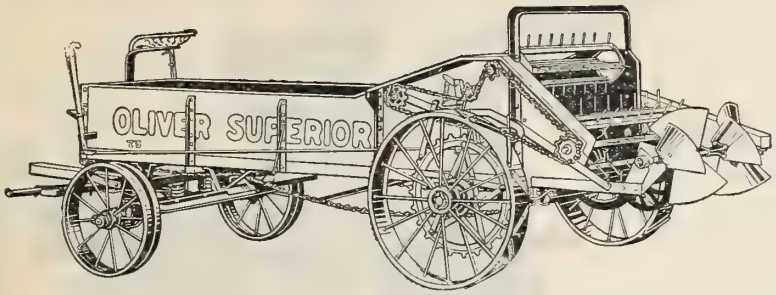
No. 1 —Weight, 450 lbs., price $73.00
No. 2 —Weight, 600 lbs., price 92.00
No. 2½—With Snatch Rod, weight 700 lbs., price 97.00
No. 3 —With Snatch Rod, weight 750 lbs., price 105.00

Wood Doubletrees and Neck Yoke, $6.00 extra.

AMERICAN FRESNO SCRAPERS

Three Sizes	Width	Weight	Price
No. 1—4-Horse	5 -ft.	315 lbs.	$36.00
No. 2—2 or 4-Horse	4 -ft.	277 lbs.	34.00
No. 3—2-Horse	3½-ft.	250 lbs.	33.00

OLIVER SUPERIOR SPREADER No. 75A



Has the biggest capacity of any Spreader, yet is easily pulled by two horses.

Exclusive features found on no other Spreader. Uses Hyatt Roller Bearings.

A lime sowing attachment for the most efficient distribution of lime can be furnished. Every desirable feature in spreader construction has been included in the new Oliver Superior 75 Spreader. Write for special illustrated circular.

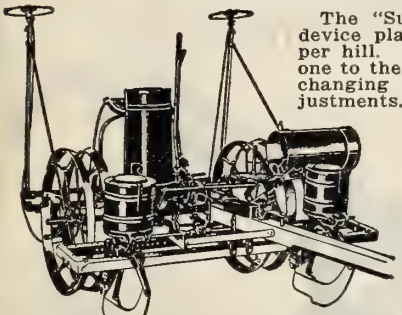
No. 75 Oliver Superior Spreader with either 2-horse hitch or tractor hitch, with wide spread attachment $180.00

Brake attachment, complete 9.25

3 horse hitch instead of 2 horse hitch, add 4.50

NEW 9C VARIABLE DROP OLIVER SUPERIOR PLANTERS

(EDGE DROP FURNISHED)



The "Superior" variable drop device plants 2, 3 or 4 kernels per hill. You can change from one to the other at will, without changing plates or making adjustments. By means of a hand lever you can make the change instantly without stopping the team.

Oliver 9-C Corn Planters are adjustable for 30" to 48" row widths. They may be secured as Check Row Planters, Drills—or with automatic hill drop device to plant hills from 28" to 76" apart in the row. Wheels, 30" open wheel regular. Closed wheel optional. Plate equipment-edge or flat drop as ordered.

Each planter, equipped with three sets, for small, medium or large kernels. Special plates for beans, cow peas, beet seed, grain sorghums, sweet corn, peanuts, and practically all other kinds of seed are available. Center reel with new, positive clutch standard.

Pole arranged for either toggle or ring neck yoke. Neck yoke and doubletrees furnished as extra equipment.

Fertilizer attachment positive and accurate. Feeders for any desired range of quantity.

Pea and Bean Attachment available. For planting peas or beans with corn.

No. 9C—Runner Planter with check wire, automatic drag marker, less trees and yoke $87.50
No. 9C—Runner Planter, no check wire, automatic drag marker, less trees and yoke 76.00
No. 9C—Disc Planter, with check wire, automatic drag marker, less trees and yoke 90.00
Fertilizer Attachment, add 27.00
Doubletrees and Neck Yoke 3.75

OLIVER SUPERIOR GRAIN DRILLS

No word we can say could make as deep an impression on the public as the widespread sale enjoyed by this, the best known drill on the market. It can be supplied in many different sizes, so we only mention those mostly used.

No. 26—Fertilizer Plow, for Disc Drills or Spring Hoe, with drag chains. No seat. agitator or scrapers. With Grass Seeder.

8x8 Disc, 2-Horse Hitch, 1 Pole $155.00
10x8 Disc, 2-Horse Hitch, 1 Pole 178.00
9x7 Disc, 2-Horse Hitch, 1 Pole 150.00
10x7 Disc, 2-Horse Hitch, 1 Pole 178.00
11x7 Disc, 2-Horse Hitch, 1 Pole 188.00
12x7 Disc, 3-Horse Hitch, 2 Poles 203.00
13x7 Disc, 3-Horse Hitch, 2 Poles 215.00
8x8 Spring Hoe, 2-Horse Hitch, 1 Pole 153.00
10x8 Spring Hoe, 2-Horse Hitch, 1 Pole 172.00
9x7 Spring Hoe, 2-Horse Hitch, 1 Pole 160.00
10x7 Spring Hoe, 2-horse Hitch, 1 Pole 171.00

Large Sizes Can Be Furnished With Tractor Hitch.

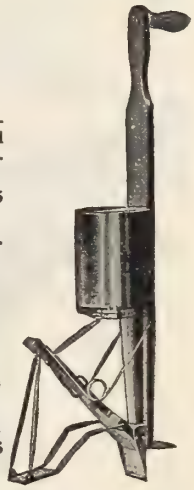
GRITCO HAND CORN PLANTER

Chinese bristle brush cut-off. Slide quickly adjusted for different sized seeds. Galvanized iron hopper.

Each $2.25

ACME HAND CORN PLANTER

(WITH ROTARY SLIDE)



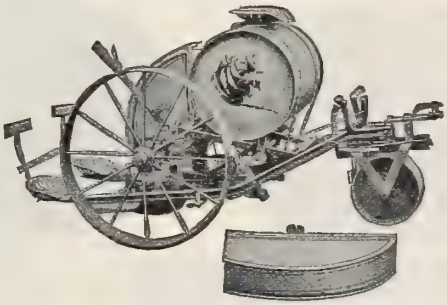
Has a motion two ways—back and forth.

Each $2.75

AMERICAN ROTARY PLANTER—No. 41

No. 41 ..... $2.50

THE IMPROVED TIGER TRANSPLANTER



The Tiger Transplanter is adaptable to all conditions of planting and spacing; adjustable to all conditions of soil and ground—on hillside or level, will space plants from 14 to 64 inches apart, and operates as readily with either horse or tractor power.

Driver and two planters can set five acres a day without undue strain or hurry. Here is a definite, money-saving implement that will handsomely repay every owner.

Almost human in its operation here is one of the greatest boons to transplanting ever developed. Eliminates packing around the plant; eliminates pouring water on the surface to bake and crack the earth around the plant.

Price $95.00

Additional for Double Wheel Fore Truck for Planting Sweet Potatoes 10.50

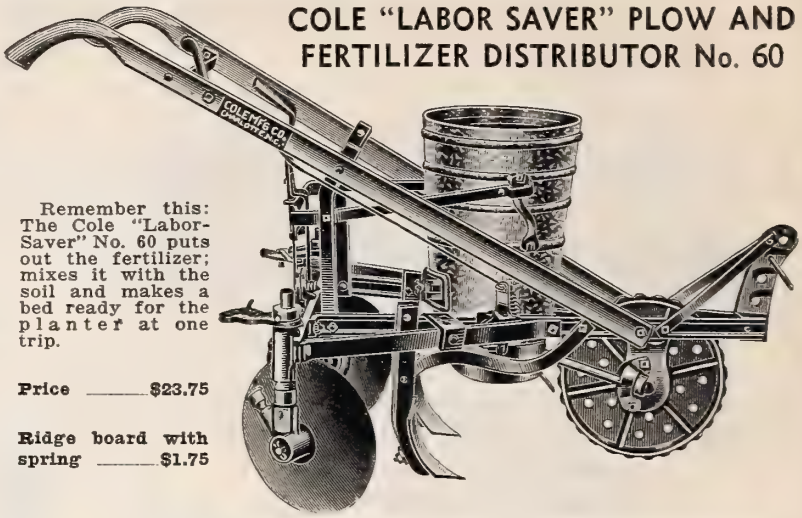
Fertilizer Attachment 18.00

DOAN OR FLAT BOARD SCRAPPER

For making Ditches, Embankments and Back Filling. Strongly built and well balanced. Blade is extra heavy, wide and ground to a cutting edge. Width 50 inches. Weight 85 pounds.

Price **$12.00**

COLE "LABOR SAVER" PLOW AND FERTILIZER DISTRIBUTOR No. 60

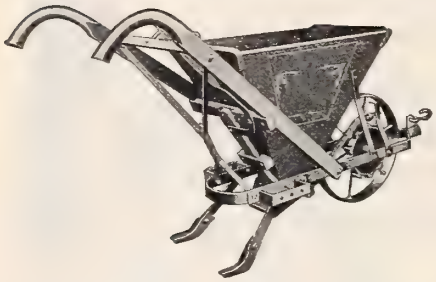


Remember this: The Cole "Labor-Saver" No. 60 puts out the fertilizer; mixes it with the soil and makes a bed ready for the planter at one trip.

Price **$23.75**

Ridge board with spring **$1.75**

Farmers' Favorite One-Horse Fertilizer Distributor



Commercial Fertilizer can be sown with this machine in quantities of from 200 to 2400 pounds per acre.

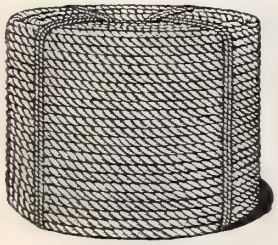
Price **$12.50**

COLE PLAIN VIEW PLANTER NO. 11

No. 11—PLAIN PLANTER **$22.50**
No. 12—FERTILIZER PLANTER **26.50**
SPRING COVER **1.75**

The Cole Plain View Planter is the most wonderful invention in seed planters. The perfect seed planter. Most accurate and reliable corn planter ever made.

BEST QUALITY ROPE



FODDER YARN

Write for Prices

GRITCO BROADCAST LIME DISTRIBUTOR

Truss rods on both sides, with a brace rod and board in the center, make an exceptionally rigid construction. There can be no sag or warp. Axle and bearings cannot get out of alignment, no matter how heavy the load or rough the land.

Hopper is fitted with two screens to sift out lumps which might cause breakage or clogging.

Box is full eight feet long; holds about ten bushels; will sow from 200 to 4,000 lbs. per acre, depending on condition and kind of fertilizer.

The few parts and simplicity of construction enable us to make a superior machine at a reasonable price.

Stock size: 8-foot Box with pole, **$55.00;** 6-foot Box with Shafts, **$55.00;** Doubletrees and Yoke, add **$3.40.**

STOVER SPECIAL FEED GRINDING MILLS

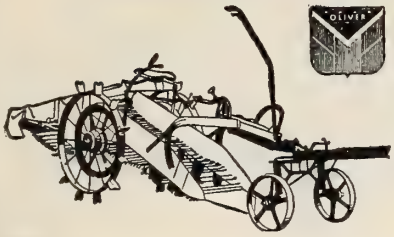
2 Set Burrs

For Grinding Dry Ear Corn, Shelled Corn, and All of the Small Grains.

Capacity, from 3 to 6 bushels per hour per horse power, depending upon the grinding condition of the grain and the fineness of the feed.

No.		Speed R. P. M.	Pulley	Horse Power Required	Weight	Price
106	6 in.	300 to 500	12x4 in.	2 to 5	200 lbs.	**$28.00**
108	8 in.	400 to 600	12x6 in.	3 to 8	275 lbs.	**38.25**
42	8 in.	400 to 1000	10x6 in.	4 to 12	400 lbs.	**50.00**

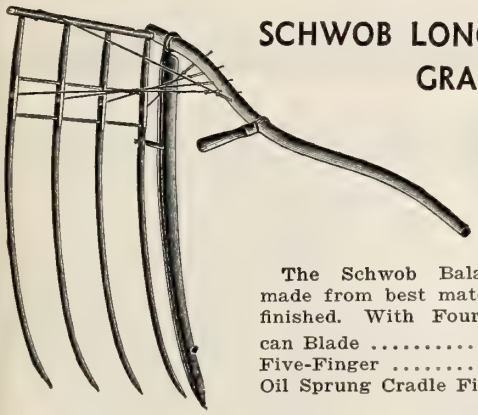
ASPINWALL POTATO DIGGER



The Aspinwall Digger is favorably known throughout the potato growing sections of the world, enjoying high prestige, as it is unsurpassed in material, workmanship, serviceability and long life.

6-Foot Digger, 22-inch Blade **$145.00**

SCHWOB LONG SWEEP GRAIN CRADLE



The Schwob Balance Cradle is made from best material and nicely finished. With Four-Finger American Blade **$6.50**
Five-Finger **7.00**
Oil Sprung Cradle Fingers, each **.40**

GENUINE NO. 2 HAINES ROW MARKER

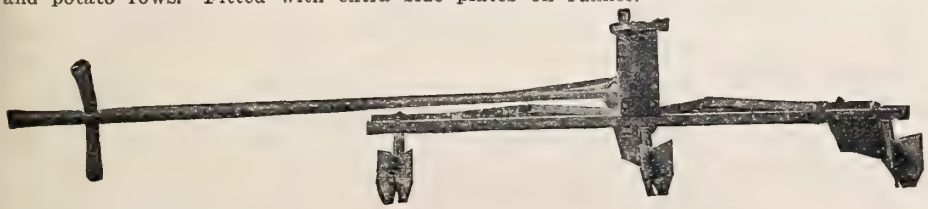
The Marker is of light draught and easily controlled by a light boy as it is not necessary for operator to dismount at ends of furrows to lift one pound.

The Marker is a perfect covering or listing machine, covering one or more rows as may be required and is under perfect control of operator by use of lever that may be adjusted while the machine is in motion.

Two-Row Marker **$40.00**
Three-Row Marker **45.00**

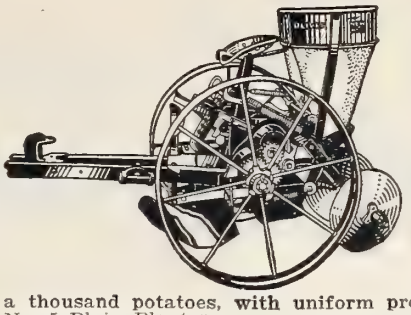
VIRGINIA ROW MARKER

Very useful for farmers and gardeners for marking corn and potato rows. Fitted with extra side plates on runner.



No. 3—3 Row, will mark 3 to 5 feet **$17.50**

NEW ASPINWALL NO. 5 POTATO PLANTER



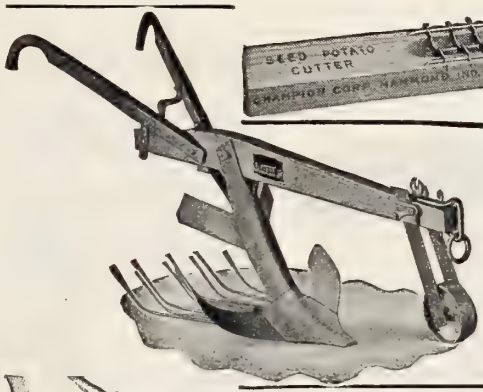
This is indeed the most perfect potato planter ever built—it leads everything in the field—and has made potato planting a science—is absolutely accurate in every degree at an immeasurable saving of time and labor.

The improvements in the pickers and concaves have made such excellent results possible — the misses have been reduced to about one in a thousand potatoes, with uniform properly cut seed

No. 5 Plain Planter **$110.00**
No. 5 Planter with fertilizer attachment **$146.00**

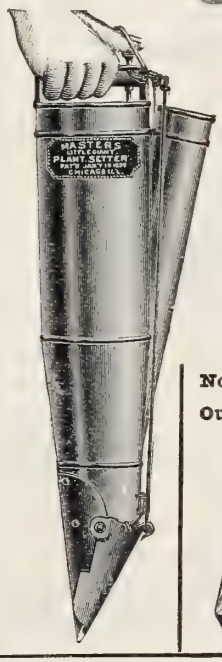
O. K. CHAMPION HAND POTATO CUTTER

Price **$3.00**



SUCCESS JUNIOR POTATO DIGGER

Price **$14.00**

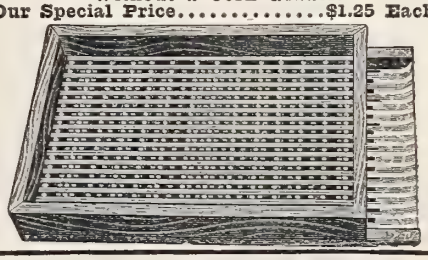


Master's Rapid Plant Setter

All kinds of Plants, such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, etc. The only Hand Mechanical Plant Setter on the market; is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.
Price, each **$6.00**

Perfection Corn Grader

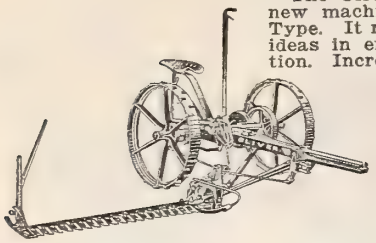
No One Who Plants Corn Can Afford to Be Without a Corn Grader.
Our Special Price ..... **$1.25 Each.**



THREE ROW SHOVEL MARKER

3-Row Shovel Marker **$13.00**

THE OLIVER MOWER



The Oliver mower is an entirely new machine of the "Big Frame" Type. It represents the very latest ideas in engineering and construction. Increased strength is built in, because mowers must do harder work than formerly.

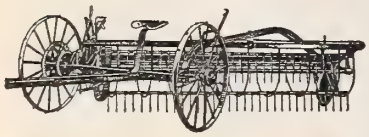
Light draft is assured in the Oliver Mower, because the working parts are held in accurate and permanent alignment.

Removable bronze bushings are used in place of ordinary cast bearings, and offer long life without "pounding" after mowing extensive acreage.

The Oliver mower can be quickly and easily converted from a plain to a vertical lift type. Only a minute or two is required to attach the coupling bar stop under the main frame, and change the lift links from the lower to the top hole in the inner shoe lifting arm, to make a vertical lift. The mower is automatically thrown out of gear, when the cutterbar is raised above a cutting angle with either the high or vertical lift.

	Price
4½ ft.	$92.50
5 ft.	95.00

OLIVER SIDE DELIVERY RAKE AND TEDDER

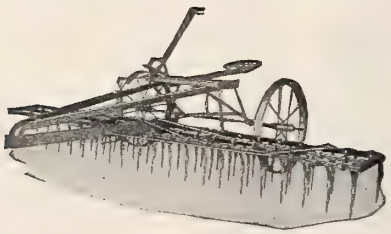


Curing hay in airy windrows made with the Oliver side delivery rake makes a higher quality hay.

The Oliver side delivery can instantly be converted to a tedder, merely by shifting a lever. Thus, the Oliver Side delivery rake and tedder combines in one machine all the equipment for best curing and raking hay, for every kind of hay crop.

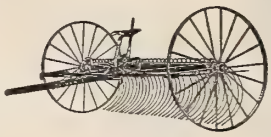
	Price
No. 1-B—8-ft., 48-tooth	$120.00

GRITCO RIDING WEEDER



	Price
12-foot Weeder, with Pole. No double trees or neck yoke	$36.00
Regular Trees and Yoke add	2.75
Extra Wide Trees and Yoke, add	3.50

OLIVER SELF-DUMP HAY RAKE



The strong, rigid frame on the Oliver Self Dump Rake cannot sag or twist. The frame is angle steel, not riveted together. It is further prevented from sagging by a heavy truss rod, which runs the entire length of the frame and supports the center of the rake in the manner of a bridge truss.

	Price
8 ft., 24 teeth	$46.00
9 ft., 24 teeth	49.00
10 ft., 32 teeth	53.00

OLIVER DROP DECK CYLINDER LOADER

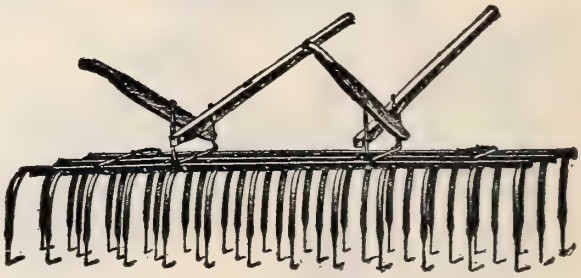
The Oliver cylinder hay loader with the drop deck combines in one simple sturdy machine all of the best qualities desired in a hay loader. Above everything else, it is built to clean the hay off the ground and place it on the load without shaking off the leaves which are so high in feeding value.

The curved teeth pick up all the hay in the windrow. The 8 cylinder bars, with 16 teeth to each bar, are like a multitude of small pitchforks which slide under the windrow and deliver it to the hay carrier without bunching or tearing the hay apart. The speed of the cylinder and the speed of the hay carrier are proportioned so exactly that the hay is carried in a continuous ribbon from the windrow to the load.

The Oliver drop deck does not depend on a complicated system of springs and counterbalances to hold it in the desired position.

	Price
Single Cylinder Loader	$130.00
Two Cylinder Loader	147.00

GRITCO WEEDERS



	Price
7½-foot Gritco Flat-Tooth Weeder	$13.00
9 -foot Gritco Flat-Tooth Weeder	16.50
Extra Teeth	.25

BELT DRESSING

The Belt Dressing With the Bull Dog Grip

There is nothing as troublesome as a slipping belt. It not only loses power but the slipping wears the belt out many times faster than proper use. This belt dressing not only prevents the belt from slipping but it also preserves the belt and saves the power.

The small cost of this wonderful dressing will produce for you unlimited satisfaction.

Large Stick	50c

ROPE PLOW LINES

⅜ Manilla Plow Lines, per pr., 42 ft.	35c
½ Manilla Plow Lines, per pr., 42 ft.	45c
⅜ Cotton Plow Lines, per pr., 42 ft.	50c
½ Cotton Plow Lines, per pr., 42 ft.	60c

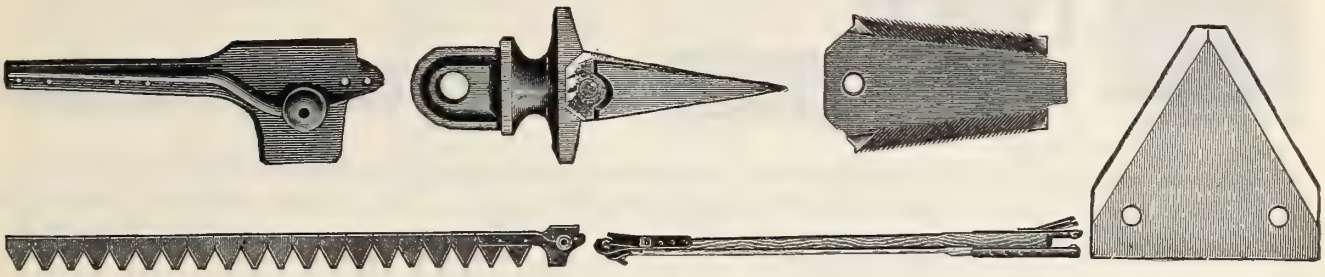
ALLIGATOR STEEL BELT LACING

This steel belt lacing is recommended for strength, permanence and quick, easy application.

No. F25 for single leather and fabric belts from 3/16" to 7/32" thick, Boxes 6 sets for 8 in. Belts	$1.60
Single Sets	.40
No. G25 for single leather and fabric belts, from 3/16" to 7/32" thick, Boxes 8 sets for 12 in. belts	2.75
Single Sets	.50
No. L27 for leather or 4-ply fabric belts up to 9/32" thick, Boxes of 8 sets for 12 in. belt	3.00
Single Sets	.55
No. M35 for all belts from 9/32" to 5/16" thick, Boxes 4 sets for 8 in. belts	1.60
Single Sets	.40

Mower and Binder Extras to Fit Leading Machines

Parts for Older Machines Can Also Be Supplied



By following the name of machine across the page, you can find correct number of part wanted.

WHEN ORDERING Mower Knives and Sickles always state number of Knife Head, and how many cutting sections on Knife.

Name of Mower	No. of Knife Head	Section	No. of Guard	No. of Guard Plate	No. of Pitman	No. of Pitman Box	Price Pitman Box
Adriance (Buckeye)	557F	745	3087H	716½C	3032H	61K	$0.80
Champion, New Draw Cut; 1905-12	A870	MA333	A881	H253	Steel	B683½	1.60
Champion Imp. and V. L.; 1909 since	A5792	MB333	AA881	H253	Steel	A1133	1.60
Deere, Dain Mower; 1895-1919	Z45	Z5059	Z1	Z5110	Z5076	Z205	.80
Deere Mowers; 1923 and since	Z502	Z5571	Z463H	Z5110	Z5661	Z513	.80
Deering, Ideal, Steel Pitman	F123	D1140	D442	D1043	Steel	D334	1.00
Deering, Ideal, Wood Pitman	D463	D1140	D698	D1739	D2907	G191	.65
Emerson, Standard; 1900 and since	M203	M193S	M614	M301S	Z397	M517	.80
Emerson, 6 and 7-ft.; 1909 and since	M204	M193S	M614	M301S	Z397	M517	.80
Johnston; 1909 and since	2211	920	1811	912	2228C	2207C	.65
Massey-Harris No. 11, one horse	919	920	1811	912	304X	256	.70
Massey-Harris No. 20 and 21	M802	M2260	M803	M2494	M5176	M800½	.70
Massey-Harris No. 22	M902	M2492	M803	M2494	M5176	M800½	.70
McCormick; 1888-1909	M139	MA333	M462	M219½	M392	M317	.65
McCormick; 1910 and since	M139	MB333	MD989	MA990	M392	MD317	.65
McCormick-Deering; 1923 and since	MA139	MB333	MD989	MA990	M392	MD317	.65
Milwaukee, Chain Drive	PG6	PG155	PK5S	P201S	PV290	PJ50	.60
Moline-Adriance	557F	745	3087H	716½C	3032H	61K	.80
Osborne, Columbia; 1902-05	K284	K223	K514	5401	Steel	K826	.80
Osborne, Nos. 1, 2 and 3; 1905, since	K774	5406	K790	11565	J9439½	KA1158	.80
Thomas-Crown; 1888-1923	6	1077	03	1046	1069	25	.70
Thomas-New Crown; 1924 and since	CM402	1077	CM3	1238	1245	25	.70
Wood-Admiral; 1907-14	2862	3410	L	9571	8965	2941	1.20
Wood, Vertical Lift; 1925, since	K366	3410	L	9571	K3434	AK367	1.20
Name of Binder							
Adriance No. 7; 1915 and since	JA102	A84	2090	716½A	J1230		
Champion, Improved; 1909 and since	2564	G241	3025	G167	Steel		
Deere; 1914 and since	HZ493	HZ5186	HZ147	HZ5183	HZ9140		
Deering, Ideal; 1898 and since	M877	E1328	286	E1330	H1255		
Johnson-Continental	K306	L787	K307	K364	K118C		
Massey-Harris; 1915 and since	S213	336A	S220	D157	S1032		
Milwaukee No. 12; 1907 and since	SN342	SL877	SN37	SM681	SN844		
Moline; 1915 and since	JA102	A84	2090	716½A	J1230		
McCormick; 1911 and since	B756	762	HA495	H507	B763		
McCormick-Deering	BA756	762	HA495	H507	BA763		
Osborne; 1915 and since	C1044	11259	C752	11601	J9048		
Wood, New Century; 1917, since	H2139	7268	H2620	H2620			

PRICES

Complete Knives, 4½ feet	$2.50
Complete Knives, 5 feet	2.75
Complete Knives, 6 feet	3.00
Complete Knives, 7 feet	3.25
Complete Knives, 8 feet	3.50
Knife Heads, Steel	.90
Knife Heads, Malleable	.50
Sections, per box of 25	1.50
Sections, each	.08
Rivets, per pound	.15
Mower Guards	.30
Binder Guards	.30
Guard or Leger Plates	.05
Wood Mower, Pitman's (Massey-Harris)	3.25
Wood Mower, Pitman's, all others	1.75
Wood Binder, Pitman's (McCormick)	.90
Wood Binder, Pitman's, all others	.75
Pitman Boxes (priced above).	
Guard Bolts	.05
Binder Canvas Slats	.10

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Mower and Binder Extras For Leading Machines

DAIN-DEERE Z5063

Name	No. of Pitman Bolt		No. of Pitman Strap		No. of Knife Clip	No. of Knife Cap		No. of Wearing Plate	
	Knife End	Box End	Knife End	Box End		Front	Rear	Under Clip	Under Cap
Adriance Buckeye	602C	607B	600-1E	605C	3093	3084	3086A	3094A	3098C
Champion Draw Cut	H609	H632	———	———	A1155	A816	A1163	A5858	A5857
Champion Improved	A5834	———	———	———	A1155	A1235	AB1227	A5858	A6136
Deere-Dain	Z5040	Z5035	Z220-5	Z226	Z6	Z30	Z32	Z5064	Z5063
Deere	Z5040	Z5961	Z392-3	Z516	Z6060	Z6010	Z488	Z5925	Z5685
Deering	D2591	D2592	G211-2	G210	F94	D826	D984	D3012	D1455
Deering, 6 and 7 foot	D3079	D3078	G211-2	G210	D927	D826	D984	D3012	D1455
Emerson	Z381	Z382	M417-8	M416	M503	M528	M505	———	66S
Johnson	2251	2252	2208-9C	2210	1814C	1885	926	1813	904
McCormick	M483	M483½	M147 M304	M315 M316	M463	M290	M652	M468	M490
McCormick-Deering	M483	M483½	M147 M304	M315 M316	MD1000	MA1239	MA652	MA468	MA490
Milwaukee Chain Drive	PG175	PG175	PM34-5	PL9-9½	PK1	PH2	PM3	PK156	PG157
Moline	602C	607B	600-1C	605C	3093	3084C	3086A	3094A	3098C
Osborne	9960½	9959½	8131-2	8130	K665	10828	10008	13461	10009
Thomas Crown	1004	1005	55-6	57	317	10	B40-CM329	———	1091
Thomas New Crown	1117	1005	55-6	57	CM352	1219	B40	1239-40	1091
Wood, Admiral	A2148	9534	2853 2964	2834 2835	2865	2761	2959	K3139	K3138
Wood, Vertical Lift	K3435	K3460	K3438 K3439	K3433	2865	K364	K306	K3139	K3423
Massey-Harris	MA1706	M2511	M2489 M2490	M2491	M888	L136	M2515 M2516	M2277	M2278

Pitman Bolts ..... 15c. Pitman Straps ..... 30c. Knife Clips ..... 15c Wearing Plates 15c

Knife Caps on Application.

MOWER POLES, MADE OF FIR

Will interchange with McCormick, Deering and other mowers using poles of this size.

3x5x13 feet, natural, each **$3.50**

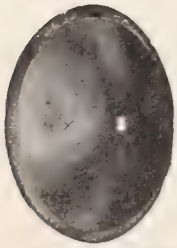
SOLID COPPER RIVETS AND BURRS

Each of following sizes in ¼-lb. packages:

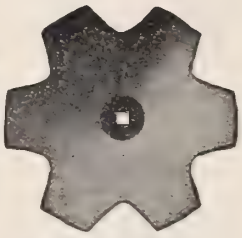
No. 9—Lengths, ⅝ in., ¾ in., ⅞ in., 1 in., per lb. **60c**

No. 10—Lengths, ⅝ in., ¾ in., ⅞ in., 1 in., per lb. **60c**

HARROW DISKS



FRONT AND BACK REGULAR HARROW DISC



CUTAWAY HARROW DISC

HARROW DISCS

16 inch $1.40
18 inch 1.75

CLARK CUTAWAY DISCS

16 inch $2.10
18 inch 2.60
24 inch 5.50

Furnished $\frac{13}{16}$ and $\frac{15}{16}$ square hole.

SPRING HARROW TEETH

For All Leading Harrows

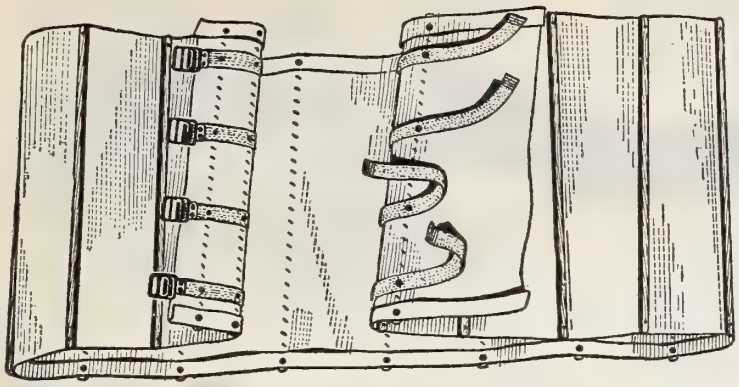
Price ..... **55c each**

MACHINERY BUSHINGS

No. 200—Assortment in sizes from ⅝ to 2¼ inches, weight 5 lbs. per box **$2.50**

BUSHINGS IN BULK

	Per 100
¾ in., 14 gauge	$1.00
1 in., 14 gauge	1.25
1¼ in., 14 gauge	1.50
1½ in., 14 gauge	2.00
2 in., 14 gauge	4.00



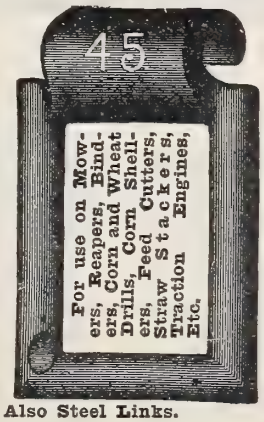
CONVEYOR CANVASES

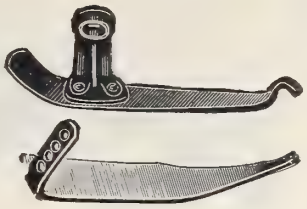
No.		Year	Price
	ADRIANCE—MOLINE		
JD1401	Lower Elevator, 90x52", Nos. 4, 6, 7 and 25 Binders	1913-	$5.85
JD1402	Upper Elevator, 90x45½", Nos. 4, 6, 7 & 25 Binders	1913-	5.60
J1450	6 ft. Platform, 137x41", Nos. 4, 6 and 7 Binders	1913-	7.75
J1451	7 ft. Platform, 158x41", Nos. 4, 6 and 7 Binders	1913-	9.00
	CHAMPION		
KA3145	Lower Elevator, 77x51½", Improved Binders	1909-	4.75
KA3144	Upper Elevator, 96x43¾", Improved Binders	1909-	5.10
KA3147	6 ft. Platform, 137x43¾", Improved Binders	1909-	6.60
KA3148	7 ft. Platform, 157x43¾", Improved Binders	1909-	7.65
KA3149	8 ft. Platform, 185x43¾", Improved Binders	1909-	8.70
	DEERE		
HZ9040	6 ft. Platform, 135x44¾", Light Draft Binders	1911-	6.60
HZ9041	7 ft. Platform, 159x44¾", Light Draft Binders	1911-	7.65
HZ9044	Upper Elevator, 93x46⅞", Light Draft Binders	1917-	4.75
HZ9043	Lower Elevator, 96x50⅞", Light Draft Binders	1917-	5.15
	DEERING		
HA4562	Upper Elevator, 90x47", Ideal Binders	1908-	4.75
HA1775	Lower Elevator, 89x50⅜", Ideal Binders	1899-	5.15
HA1772	6 ft. Platform, 133½x43¾", Ideal Binders	1899-	6.60
HA1773	7 ft. Platform, 157½x43¾", Ideal Binders	1899-	7.65
HA2791	8 ft. Platform, 183x43¾", Ideal Binders	1899-	8.85
	McCORMICK-DEERING		
BD65	Upper Elevator, 91x47¼", R. & L. Binders	1901-	4.75
BA66	Lower Elevator, 97x51", R. & L. Binders	1901-13	5.25
BB835	Lower Elevator, 89x51", R. & L. Binders	1911-	5.15
BB466	5 ft. Platform, 110x45", R. & L. Binders	1901-	6.00
BC467	6 ft. Platform, 134x45", R. & L. Binders	1901-	6.60
BB468	7 ft. Platform, 158x45", R. & L. Binders	1901-	7.65
BC469	8 ft. Platform, 182x45", R. & L. Binders	1901-	8.85
	MASSEY-HARRIS		
A1260	6 ft. Platform, 138x39", No. 5 Binders	1915-	6.60
A1261	7 ft. Platform, 162x39", No. 5 Binders	1915-	7.65
S1107	Lower Elevator, 88x53", No. 5 Binders	1915-	5.75
S1106	Upper Elevator, 84x50", No. 5 Binders	1915-	4.75
A5013	8 ft. Platform, 186x39", No. 5 Binders	1915-	8.85
	MILWAUKEE		
SN812	Upper Elevator, 88x47½", No. 12 Binders	1907-	5.60
SN813	Lower Elevator, 83x52½", No. 12 Binders	1907-	5.85
SP817	6 ft. Platform, 137x42⅝", No. 12 (works for SN817)	1902-	7.75
SM818	7 ft. Platform, 158x42½", No. 12 (works for SL818)	1906-	9.00
	OSBORNE		
CA2022	Upper Elevator, 88x42¾", New Osborne Binders	1909-	4.50
CA2023	Lower Elevator, 90x48½", New Osborne Binders	1909-	4.75
CA2008	6 ft. Platform, 134x42¾", Col. & New Osb. Binders	1896-	6.60
CA2009	7 ft. Platform, 158x42¾", Col. & New Osb. Binders	1896-	7.65
CA2010	8 ft. Platform, 182x42¾", Col. & New Osb. Binders	1896-	8.85

LINK CHAIN BELTING

No.	Links per ft.	Av. Ult. strength lbs.	Price per ft. plain links	Price all per link
25	13.3	700	17c.	3c.
32	10.4	1100	17c.	3c.
33	8.6	1190	16c.	3c.
34	8.6	1300	18c.	3c.
35	7.4	1200	20c.	3c.
42	8.75	1500	19c.	4c.
45	7.4	1600	18c.	3c.
48	6.	1660	23c.	4c.
50	8.7	1900	22c.	5c.
51	10.4	1900	24c.	6c.
52	8.	2300	23c.	5c.
52½	7.9	2866	32c.	6c.
55	7.4	2200	20c.	5c.
62	7.25	3100	27c.	6c.
65	5.66	2460	30c.	8c.
72	5.9	4240	45c.	8c.
72½	7.25	4590	55c.	9c.
76½	5.8	3890	42c.	9c.
77	5.2	3600	35c.	9c.

Attachment Links Also Furnished. Also Steel Links.





SHOE SOLES

SHOE SOLES FOR MOWERS

ADRIANCE	
3099D, Inner, Nos. 7 and 8	$1.20
3073J, Outer, Nos. 7 and 8	.60
CHAMPION	
H381, Inner Draw Cut	.95
H483, Outer Draw Cut	.85
A6207, Inner, Improved Mower	.85
A5847, Outer, Improved Mower	.75
DEERE-DAIN	
Z5379, Inner, Dain	.90
Z5231, Outer, Dain-Deere	.60
Z5786, Inner, Deere	.90
DEERING	
D2510, New Ideal, Inner (D3501)	.90
D2937, New Ideal, Outer	.65
EMERSON	
M95S, Inner	1.00
M173½S, Outer (0-10959) with bracket	.70
JOHNSTON	
63FC, Outer with bracket	1.00
1812, Inner, Nos. 9, 12, 14	.80
2323, Inner, No. 12	.90
63FD, Outer, No. 14	1.00
McCORMICK	
M465, Inner, New 4-1896-11	.90
MB465, Inner, New 4-1912	1.00
MA259, Outer, New 4	.60
McCORMICK-DEERING	
MB465, Inner	1.00
MA259, Outer	.60
MASSEY-HARRIS	
M2216, Outer, No. 20-21, plain	.55
M2217, Outer, No. 20-21, with bracket	1.00
M2276, Inner, No. 20-21	.90
1304, Inner, No. 11	.85
L1065, Inner, No. 22	.80
M2898, Outer, No. 22, with bracket	1.00
MILWAUKEE	
PJ108, Inner	.90
PJ278, Outer	.70
OSBORNE	
7010, Inner	1.00
10959, Outer	.65
THOMAS	
1041, Outer	.60
1096, Inner	1.00
1107, Inner (New Mower)	.75

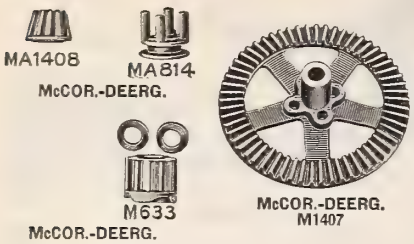
HARROW SHOES

Made ⅜-inch Stock Complete With Bolts

To Fit	
International, 2 section	$3.94
McCormick, 2 section	3.67
McCormick, 3 section	5.24
Massey-Harris, No. 15, 2 section	3.30
Massey-Harris, No. 15, 3 section	4.65
Oliver, 2 section	4.80
Oliver, 3 section	6.75
Syracuse, 2 section	3.42
Syracuse, 3 section	5.19
Osborne, 2 section, ¼-inch stock	2.70
Osborne, 3 section, ¼-inch stock	3.97

ALL OF OUR REPAIR PARTS ARE MADE ACCURATELY AND THEY ARE GUARANTEED TO FIT. WRITE FOR ANY PARTS WE DO NOT LIST.

GEARS AND PINIONS



To Fit the Following

Adriance—
706D, Spur Pinion $1.25
555D, Spur Gear and Bevel Pinion 5.75

Champion—
A865, Spur Pinion 1.00
A867, Bevel Pinion ..... .75

Dain—
Z125, Bevel Gear 3.00
Z130, Bevel Pinion ..... .70

Deering Ideal—
D356, Bevel Gear 3.50
D458, Bevel Pinion ..... .75

Deering New Ideal—
D864, Bevel Gear 2.50
D865, Bevel Pinion ..... .75
D730, Spur Pinion ..... .85
D795, Bevel Gear 2.50
D989, Bevel Gear 2.50

Emerson—
M522, Bevel Pinion ..... .75

McCormick New 4—
M633, Spur Pinion 1.15
M635, Bevel Pinion ..... .75
M813, Bevel Gear 3.00

McCormick New Big 4—
M837, Bevel Gear 3.00
M838, Bevel Pinion ..... .70
MA814, Clutch 1.00
M1400, Clutch 1.25

McCormick No. 6 Vertical—
M1406, Spur Pinion 1.15
M1407, Bevel Gear 3.25
M1408, Bevel Pinion ..... .75

Thomas—
65, Bevel Pinion ..... .75
301, Bevel Gear 2.25
302, Triple Gear 4.25
303, Drive Gear 3.50
20, Drive Gear 3.75

Wood—
2525, Bevel Gear 3.70
2791, Bevel Pinion 1.15
2790, Spur Pinion 1.25

CRANKSHAFT BUSHINGS FOR ALL MACHINES

MA1424
McCOR.-DEERG.

CORN PLANTER RUNNERS

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.

SINGLE ROW PLANTERS

	Each
Rock Island	$2.00
Empire	2.00
Hench & Dromgold Daisy	2.00
Hoosier	2.00
Keystone, No. 6½	2.00
Case, Farmers' Friend	2.00
Black Hawk	2.00
Avery, No. 27	2.75

FOR DOUBLE ROW PLANTERS

	Per Pr.
For Janesville, Nos. 1, 5, 7, and 8	$4.50
For Black Hawk, No. 1	4.40
For Black Hawk, No. 3	4.40
For Black Hawk, Nos. 4 and 5	4.40
For Deere, No. 999, With Blocks	5.00
For New Way	5.00
For Black Hawk, No. 15, With Block	5.00
For Deere, No. 9	4.40
For International, With Block	5.00
For J. I. Case, No. P344	4.40
For Superior, With Block	5.00
For Superior, Without Block	4.40
For Hoosier, No. 10	4.40
For Hoosier, No. 11	4.40
For Tiger Transplanter, Shallow, each	4.00
For Tiger Transplanter, Deep, each	4.50
For Case Transplanter	4.50

Rivets, per pound, 15 cents.

CHECK-ROWER WIRE

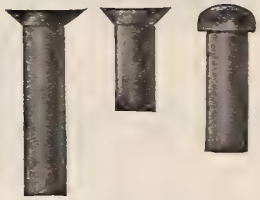
FOR LEADING PLANTERS

The above comes in 10, 20, 40 and 80 rod rolls. **Per rod** 8c

BINDER CANVAS TACKS

Double pointed, tinned, in ¼-lb. pkgs. Per Pound 25c

IRON RIVETS



Most Commonly Used

Mower Section, ½x5½.
Binder Section, ⅜x6.
Knife-head Mower, ⅞x5½.
Knife-head Binder, ¾x6.
Guard Plate Mower, 1¼x6.
Guard Plate Binder, 1¼x6.
Pitman Mower, ¼x2¼.
Pitman Binder, ¼x2.

Per Pound 15c

HARNESS STRAP BUCKLES

1 1/16-inch, with 7-inch web attached, each 15c

SPIKE HARROW TEETH

½x8-inch	$0.07
9/16x8-inch	.07
⅝x8-inch	.07
¾x11-inch	.14
⅞x11-inch	.16
1x12-inch	.21
Universal Clamps, each	.15

SPRING COTTERS

Assorted, box of 100 ..... 75c

GRAIN DRILL TUBES

Plain Top

IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of **Drill**, and by all means the length and diameter at top and bottom.

Plain tubes, each 40 cents.

GRAIN DRILL POINTS

We are one of the largest distributors of

GRAIN DRILL POINTS and TUBES in the Country.

For All the Leading Grain Drills.

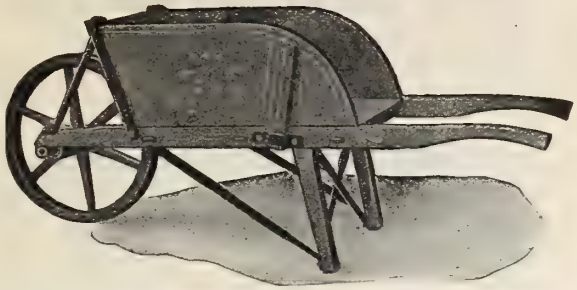
IN ORDERING POINTS, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. **Price,** Points, each 18c

REVERSIBLE HARROW POINTS

Butts (fits all harrows)	$0.30
Butts, points only	.13
Butts, clamps only	.14
Syracuse—1 hole	.20
I. H. C.—2 hole	.22
Osborne—B. & G., 2 hole	.22
Missouri, 256 (fits all harrows)	.30

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

BALTIMORE GARDEN BARROWS

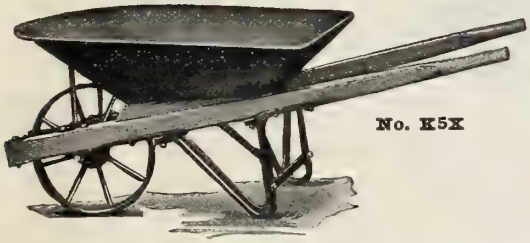


Made of seasoned wood, double frames, firmly bolted, iron braced.

No.	Hub	Length	Front Width	Back Width	Wheel	Tread	Price
1—Garden	19½	30	24	25	21	1½	$9.50
4—Garden	14⅞	26	19	22	20	1¾	7.50
5—Garden	14⅞	28	20	24	20	1¾	8.00
67—Greenhouse		31	15	18	20	2	10.50

6B—Garden $5.40
Nos. 4 and 5, with steel wheel add ..... .80
3-inch tire wheel on Nos. 4 and 5 add ..... .60

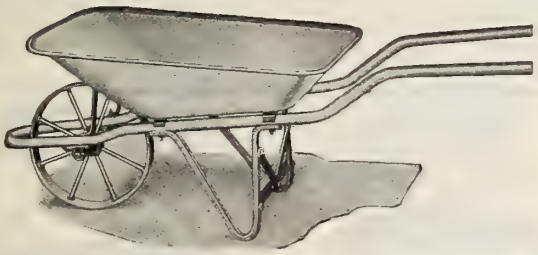
SOLID PRESSED STEEL TRAY BARROW



No. K5X

Durable Steel Wheel, Channel Steel Legs, Improved Steel Nose Guard. K5X. Capacity 4 cubic feet. Weight 68 pounds $8.00
1B Barrow, 3 cubic feet, 4-in. tire wheel 12.00

TUBULAR FRAME SOLID PRESSED STEEL TRAY BARROW



TT 4, Tray 15-gauge Steel. Capacity 3 cubic feet. Weight, 70 pounds. Wheel, 16-inch diameter; tire 1½x⅜-inch, bored for ⅝-inch. Cold Rolled Steel Axle. For moving earth, ashes and light work $8.00

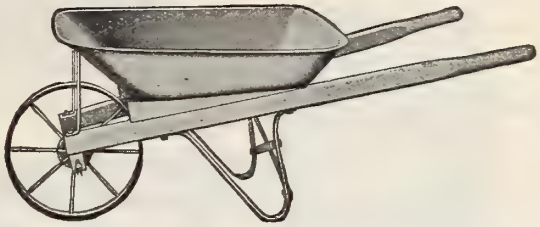
T5X, Tray 16-gauge Steel. Capacity 4 cubic feet. Weight 75 pounds. Mounted on same frame as TT 4. For general purposes and light running. Will stand hard usage $9.25

WAGON OR TRUCK SKIDS

These skids are made from strong, select hickory side bars one end being ironed with wedge shaped steel points, between which the side bars extend, which prevents them from splitting. The upper end is ironed in a similar way, only it is equipped with hooks to fasten to the body of the vehicle.

Size	Price	Size	Price
6 Ft.	$8.00	10 Ft.	$11.00
8 Ft.	10.00	12 Ft.	15.50

HANDA HOME AND FARM WHEELBARROW



HANDA—16-gauge pressed steel tray, capacity 3 cubic feet. Flat Steel Legs, substantial steel wheel. Weight 45 pounds.

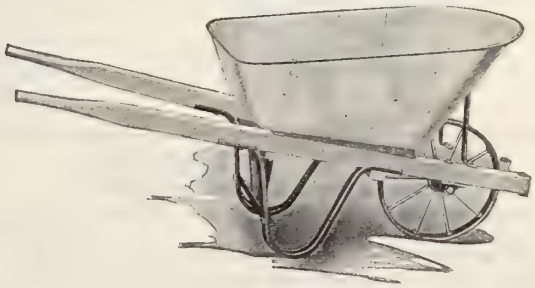
Price $4.25

SOLID PRESSED STEEL TRAY COAL AND COKE BARROW NO. T8

Tray of best quality steel, with wired edge. Size No. 13—Gauge of steel in tray, 13; length of top of tray, 41½ in.; width of top of tray, 33 in.; depth at wheel, 11½ in.; depth at handle, 8 in.; capacity, 6 cubic feet; weight 100 lbs.

Price $12.00

CONCRETE AND MORTAR BARROW



Made especially to carry a full load of soft concrete or mortar without slopping. 4 cubic feet. Weight, 80 lbs.

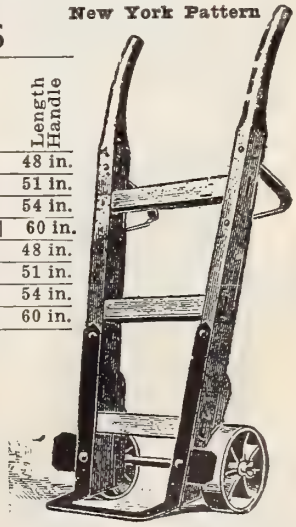
No. 77—Deep, Narrow Tray, rounded front and corners, $9.60

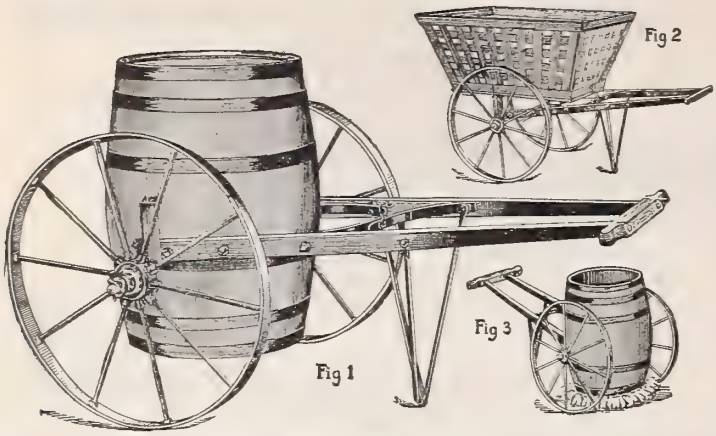
STORE TRUCKS

Baltimore Store Truck
Price $4.60

Half Strapped	Full Strapped	Price	Length Handle
1		$8.00	48 in.
2		9.25	51 in.
3		11.00	54 in.
4		15.00	60 in.
	A1	9.00	48 in.
	A2	11.00	51 in.
	A3	12.75	54 in.
	A4	16.00	60 in.

New York Pattern

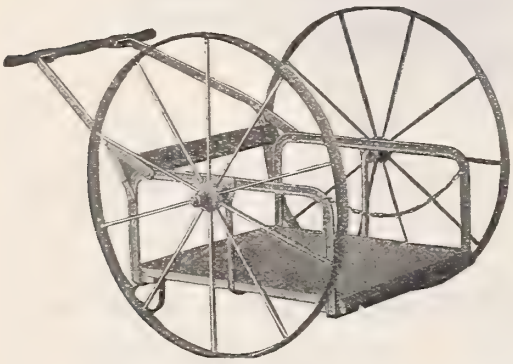




WATER TRUCKS AND PUSH CARTS

Water Truck, with Regular 1½-inch Tire Steel or 2½-inch Wood Wheels, 32 inches high	$14.50
Water Truck and Barrel	19.00
Water Truck and Box	17.50
Water Truck, Barrel and Box	22.00
Sprinkling Attachment	5.00
Leaf Rack	9.50
Barrel	5.00
Box	3.00
Trunnions, per pair	.75
Trucks with 2½-in. Tire Steel Wheels, add	.50
Trucks with 3½-in. Tire Steel Wheels, add	1.00

BUTLER CART

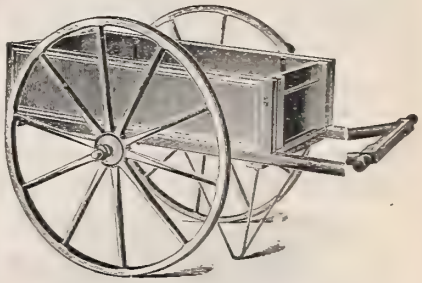


Size of platform 27x30 inches.
Wheel 2-inch tire.
Price, $12.00

WHEELBARROW LEAFRACK ATTACHMENT

Can be attached to any style or size wheelbarrow with removable sides. Most convenient for gathering leaves, cut grass and rubbish. One of these attachments should be in use on every small suburban place, as well as the larger estates. Capacity 10 bushels; made of galvanized wire, bolted to a wooden base, price **$5.00**

BALTIMORE PUSH CART



Tire, 1½ inches; wheel, 36 inches; axle, 1⅛ inches; hub, 6 inches.

Box 40x22x10, Price	$17.50
Box 50x28x10, Price	23.00
Extra wheels, each	4.00
Extra axles	1.00

MONITOR CART NO. 53

THREE WHEELS WITH SPRINGS

No. 53—Box 40x26x9½ inches, 30-inch wheels, $\frac{3}{16}$-inch spokes, weight 110 pounds, price **$24.00**

No. 23 MONITOR—Box 39x20½x9½ inches, capacity 600 pounds, 30-inch wheels, $\frac{3}{16}$-inch spokes, weight 80 pounds, price **$21.50**

MERIMAC CART NO. 132

TWO WHEELS WITH SPRINGS

Two 26-inch wheels, box 39x20½x8 inches, capacity 250 pounds, weight 55 pounds, price **$14.25**

DUST PROOF COAL ASH SIFTER

This Ash Sifter saves coal and is dust-proof. It is made from extra heavy galvanized sheets heavily wired and braced and equipped with a cover at top which prevents the dust from escaping. The revolving cylinder is made from extra heavy galvanized wire mesh, operated by handle or crank equipped with wooden grip. The lip at the end of sifter allows the coal to drop directly into the hod. A strong hook holds the hod securely in place. **Price** **$2.50**

UNDERGROUND GARBAGE CAN

Sanitary—Vermin Proof

5—5 gals.	$9.00
8—8 gals.	10.50
12—12 gals.	12.00
15—15 gals.	13.50

KITCHEN STEP-ON-CAN

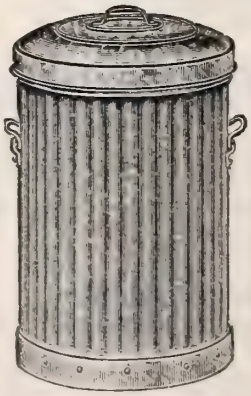
Foot operated cover

Inner can of first quality sheet steel.

3 gallon **$1.00**

ASH CAN

With Cover
Hot Dipped—Water Tight

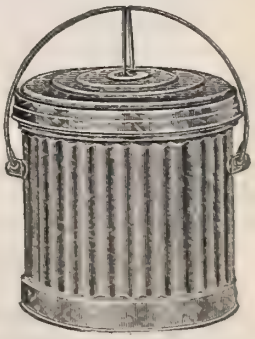


HEAVY ASH CANS

No. 171—16 gallons	$3.50
No. 181—20 gallons	4.00
No. 191—24 gallons	4.50
No. 201—29 gallons	5.00

GARBAGE CANS

Hot Dipped—Galvanized



GARBAGE CANS

No. 311—4¼ gallons	$0.75
No. 321—6 gallons	.90
No. 331—8½ gallons	.95
No. 341—10 gallons	1.10

LIGHTER ASH CANS

No. 76—13 gallons	$1.25
No. 77—21 gallons	1.50

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

GRIFFITH & TURNER WAGONS

ONE-HORSE WAGON

Solid Steel Axle and Thimble Skein

If one horse wagon is wanted with Pole instead of Shafts, add $5.75
Poles for one-horse wagons 12.00
Bodies without seats, 7 ft. 6 in. long, 15 in. deep, no seat 16.00
Wagon seats 5.00
For 1¾x¼ in. Tires on 1⅞ in. Axle Wagon, add 3.00
For 2x⅜ in. Tires on 1⅜ Axle Wagon, add 4.75
For 2x⅜ in. Tires on 2⅜ in. Wood Axle Wagon, add 4.75
Shafts as an extra 7.50

THIMBLE SKEIN ONE HORSE WAGON

Size Cast Skein	Reg. Tires	Height Wheels Front Ft. In.	Rear Ft. In.	Dimension of Body Leng. Ft. In.	Wid. Ft. In.	Dep. In.	Capacity	Weight	Gear only no brake	Gear with brake	Wagon comp. with body	Wagon comp. with body and brake
2⅜x7½	1¼x⅜	3′ 4″	3′ 8″	7′ 6″	3′ 4″	15″	1200 lbs.	550 lbs.	$48.00	$53.00	$66.00	$72.00

STEEL AXLE ONE HORSE FARM WAGON

1⅛x6½	1⅛x5/16	3′ 4″	3′ 8″	7′ 6″	3′ 4″	15″	1000 lbs.	550 lbs.	$50.00	$55.00	$68.00	$74.00
1⅜x7½	1⅜x½	3′ 4″	3′ 8″	7′ 6″	3′ 4″	15″	1500 lbs.	735 lbs.	65.50	70.50	83.50	89.50

THORNHILL FARM TRUCK

A good truck, very strong, suitable for either farm or road work, 2-inch solid steel square axles, wood wheels 36-inch rear and 32-inch front, 2x8½ box and with 3x⅜ inch tires. It is made in both drop and slip tongue. Top or swing side and tail brakes furnished when ordered.

Equipped regularly with Club Bolster stakes, but can be furnished with stationary stakes. Prices include single and double trees, and chains for stiff tongue, and neck yoke for drop tongue wagon.

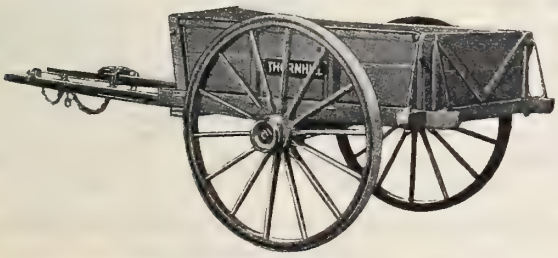
Be sure to state just what you want when ordering.

PRICES

Farm Truck, with Drop Tongues, 32″ and 36″ wheels $85.00
Farm Truck, with Slip Tongue 85.00

For any of the following extras, add to the above wagon prices—

10-foot Body, with 24-inch sides, no seat 27.00
Body Brake Attachments 2.75
36-inch Front and 40-inch Rear Wheels ..... optional
40-inch Front and 44-inch Rear Wheels ..... optional
3x½ inch Tires 5.00
4x⅜ inch Tires 7.50
Seat and Springs 5.00
Jersey Double and Singletrees 2.00
Side Brake 8.00
Tail Brakes 11.00
Both Brakes when Ordered at Same Time 16.00
Stationary Bolster Stakes ..... optional



FARM CARTS

	Price
2-inch axle, 3x½-in. tire, 4-ft. 4-in. wheels, 700 lbs.	$81.00
2-inch axle, 4x⅜-in. tire, 4-ft. 4-in. wheels, 750 lbs.	85.00

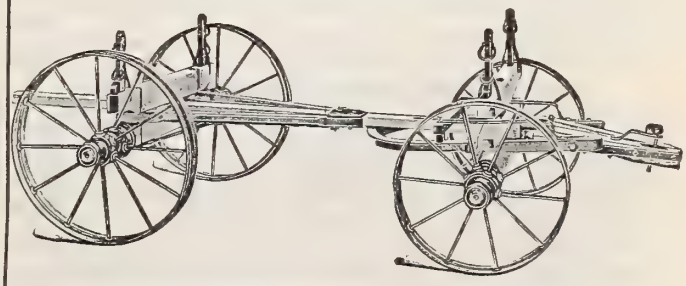
CONTRACTOR'S CARTS

2-inch axle, 3x⅝-in. tire, 4-ft. 6-in. wheels $105.00
2-inch axle, 4x½-in. tire, 4-ft. 6-in. wheels 108.00

JUNIOR FARM WAGON—
Best Ever Made

Wheels are 14 inches and 18 inches high, with heavy tires; bed is 16x36 inches, strongly made. These wagons are made of the very best materials and they are first class $14.00

HANDY STEEL WHEEL FARM TRUCK—With Full Front Hounds

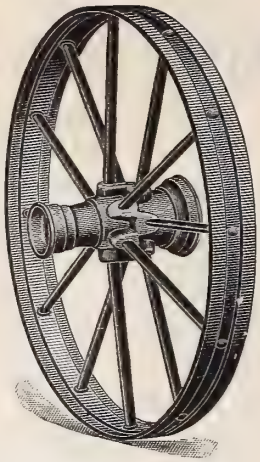


Wood Hounds—Hickory Axles—Grooved Tires

No. 815—3¼x10 skeins, weight 500 pounds, capacity 4000 pounds. Price $55.00
Brake 7.75
Doubletrees and yoke 5.50
Shafts, extra 9.00
Shafts instead of pole, add 5.00

METAL TRUCK WHEELS

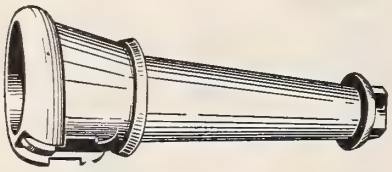
We carry wheels in stock, sizes 3x9 and 3¼x10. All other sizes will have to be ordered from the factory according to measurements sent at special prices. **If measured wrong, we will not take the wheels back.** Wood wheels, prices on application. Prices on other sizes quoted on application.



PRICES PER WHEEL WITH 4x⅜ TIRES

24-inch	$6.60
26-inch	6.90
28-inch	7.30
30-inch	7.70
32-inch	8.40
34-inch	8.80
36-inch	9.50

CAST SKEINS AND BOXES



	Price	Boxes as extras
Size 2½x8 inches, with boxes, per set	$9.00	$3.00
Size 2¾x8 inches, with boxes, per set	10.00	3.50
Size 3x9 inches, with boxes, per set	11.00	3.75
Size 3¼x10 inches, with boxes, per set	14.00	4.25
Size 3½x11 inches, with boxes, per set	17.00	5.50

STEEL SKEINS ORDERED AS DESIRED

WOOD SINGLE, DOUBLE AND TRIPLETREES

Our line of Single, Double and Tripletrees are the best on the market, CLIP ENDS. Made of second growth hickory, carefully selected and thoroughly seasoned.

26-in. Singletree	$0.60	34-in. Singletree	$0.80
28-in. Singletree	.65	36-in. Singletree	.85
30-in. Singletree	.70	36-in. Doubletree	1.25
32-in. Singletree	.75	40-in. Doubletree	1.40

Extra Heavy Tripletree $2.25

WOOD NECK YOKES

40-inch $1.75

WOOD SINGLETREE SETS

One 36-inch Doubletree and two 28-inch Singletrees, with open rings $2.50
One 36-inch Doubletree and two 30-inch Singletrees, with open rings $2.75
One 40-inch Doubletree and two 34-inch Singletrees, with open rings $3.00

PULL LENGTH STRAP, WAGON TREE SETS

48-inch Doubletree, 34-inch Singletrees and 40-inch Neck Yoke $5.50
Wagon Doubletrees, 48-inch, each $1.70
Wagon Singletrees, 34-inch, each $1.10
Wagon Neck Yokes, 40-inch, each $1.75
Double and Singletrees, less Neck Yoke for Rollers, Corn Planter, etc. $2.00
Double and Singletrees, with Neck Yoke for Rollers, Corn Planters, etc. $3.75

STEEL SINGLE AND DOUBLETREES

U SINGLE, DOUBLE AND TRIPLETREES

Prices: Singletrees, with **Malleable Hooks**, 24-inch, **60c**; 26-inch, **65c**; 28-inch, **75c**; 30-inch **90c**; Doubletrees, with **Hooks**, 36-inch, **$1.00**; Steel **Tripletrees Set, complete, per set of 6 pieces, $5.00.**

GALVANIZED STEEL BASKETS

UTILITY STEEL BASKETS GALVANIZED

With Drop Handles, 1 bushel	$0.90
1½ bushels	1.25
½ bushel	.70

SPLIT BAMBOO and OAK BASKETS

1 bushel (iron bound)	$1.35
1½ bushel (iron bound)	1.85
2 bushels (iron bound)	2.60
3 bushels (iron bound)	3.50

MEASURES

	Each
¼-peck, flat hoops	$0.65
Peck and ½-peck, flat hoops	1.00
½-bushel, flat hoops	1.25

DAISY INDESTRUCTIBLE FARM BASKETS

No. 2-PB—½ bushel rounded full. Made of No. 12 Galvanized Wire, spaced approximately ⅝-inch apart. Hoop welded to each vertical wire. atent ears that can never come off. Regular bails No. 6 galvanized wire.

Price $1.25

CHERRY SEEDERS

These cherry seeders are so constructed that they can be adjusted for different size cherries. They work very rapidly and do not tear up the fruit.

The No. 2 Seeder is made with Clamp.

The No. 1 Seeder has four legs which screw to the table.

PRICE, No. 1 $1.00
PRICE, No. 2 1.00

OPEN SIDE LAP LINKS

Open Side Lap Links, polished, ½x2½ 15c
⅝x3 20c ¾x3 25c

SET OF WELDED CLIPS

CLIPS FOR DOUBLETREES

No. 77—Southern; one ⅝-inch Center Clip and Hook, with hook and two ½-inch Clips. **Set, 45c.**

No. 76—Pennsylvania; one ¾-inch Center Clip and Hook, with ¾-inch hook and two 9/16-inch End Clips. **Set, 65c.**

CLIPS FOR SINGLETREES

No. 75—One Center ½-inch Clip, and two ⅝-inch End Clips; used on 28-inch Singletrees. **Set, 30c.**

No. 74—One Center 9/16-inch Clip, and two 7/16-inch End Clips. **Set, 35c.**

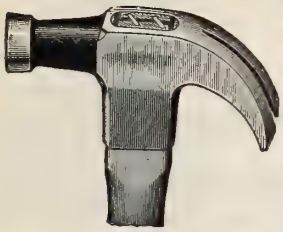
No. 73—One Center ⅝-inch Clip, and two 7/16-inch End Clips; used on 34 and 36-inch heavy Singletrees. **Set, 40c.**

No. 72—One center ¾-inch Clip, two ½-inch End Clips. **Set, 60c.**

Our Axes are of best quality. We only sell those we know to be first class, and have an established reputation.

Kelly, Single Bit—4½ and 5 lbs., each $1.50

CLAW HAMMERS



No. 5191½—Hand Made, each, 60c
No. 5171½—Falls City, each, 60c

KELLY AXES

Kelly Axes, complete with 34-inch handle, 3½, 4, 4½ and 5 lbs.,
Price $2.00

Kelly Half - Hatchets, price 90c

AXE HANDLES

Oriole—Extra Selected Second Growth All White Hickory Axe Handles 35c

THE NEW CLIPPER
Grain, Seed, and Bean Cleaner

These cleaners are guaranteed to be first-class in every respect

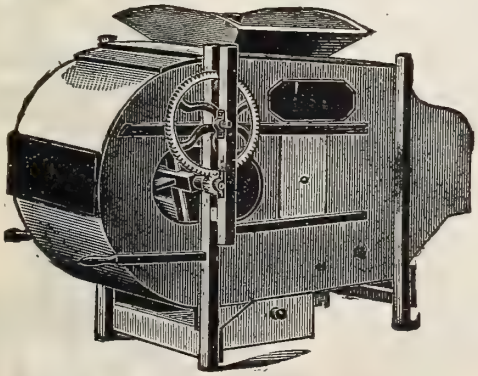
We furnish the best outfit of screens ever sent out with a farm Mill. Our perforated zinc screens are graduated in 64ths of an inch in both round and oblong holes. Our woven wire screens are made of plated wire with the meshes uniform and true to count. The zinc screens will not rust and our plated wire screens will last for years if properly cared for.

VERTICAL AIR BLAST. This is a feature that no other cleaner has and it makes possible some very difficult separations that can be made in no other way.

The No. 2-B differs from the No. 1-B only in size and capacity. Both machines are equipped with a set of 12 screens for general farm use. The No. 2-B is larger.

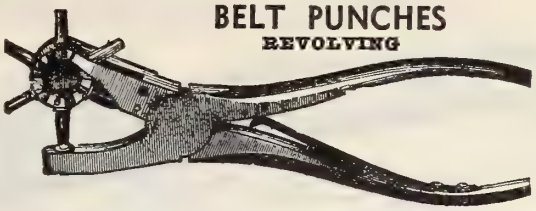
No. 1-B $51.00
No. 2-B 59.00
Power Attachment, extra 1.00

BALTIMORE IMPROVED GRAIN FAN



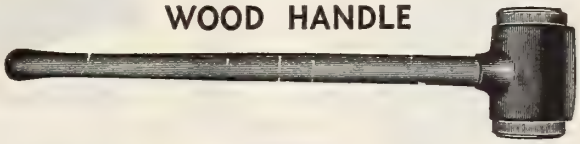
Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.
Price $45.00

BELT PUNCHES
REVOLVING



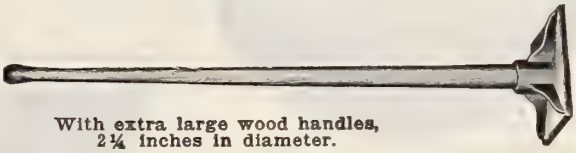
Price, each, Single tube, 35c, Four tube, 85c; Six tube, $1.00

CAST MAULS WITH WOOD END AND WOOD HANDLE



10 Pounds, Each $1.60
12 Pounds, Each 1.75
16 Pounds, Each 2.50

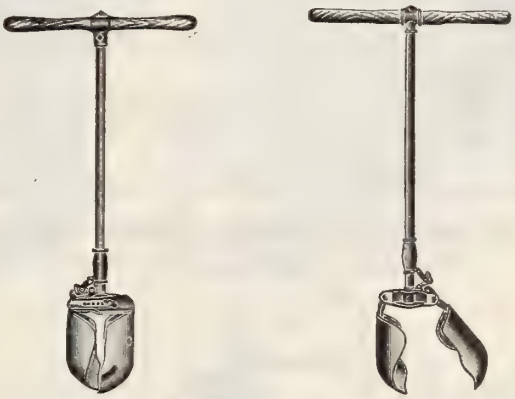
TAMPERS FOR POST, SOD AND CEMENT



With extra large wood handles, 2¼ inches in diameter.

No. 2 Round Tamper, 5 in. Diameter, 15 lbs., Price $1.40
No. 5 Square Tamper, 6 in. x 6 in., 12 lbs., Price 1.25
No. 6 Square Tamper, 8 in. x 8 in., 17 lbs., Price 1.40
No. 7 Square Tamper, 10 in. x 10 in., 20 lbs., Price 1.75

THE STANDARD EARTH AUGER



No. 5, bores holes 5, 6, 7 and 8 inches in diameter, 3½ feet deep. Each, $5.00.

No. 8, bores seven holes, 8, 9, 10, 11, 12, 13 and 14 inches in diameter, 3½ feet deep. Each, $6.00.

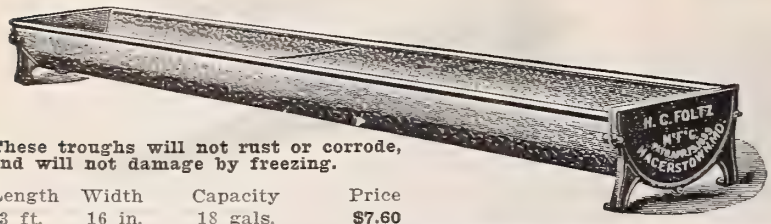
No. 16, Telescope, 8 to 14 in. hole, 10 feet deep, $14.00

GIBBS' POST-HOLE DIGGER

Digs faster, works easier than any other on the market. All wearing parts have steel pins. Makes a hole of any desired diameter. First-class for tree planting.

Price $2.50

GALVANIZED STEEL STOCK TROUGHS



These troughs will not rust or corrode, and will not damage by freezing.

Length	Width	Capacity	Price
3 ft.	16 in.	18 gals.	**$7.60**
4 ft.	16 in.	24 gals.	**8.60**
6 ft.	16 in.	36 gals.	**10.25**
8 ft.	16 in.	48 gals.	**12.00**
10 ft.	16 in.	60 gals.	**14.40**
12 ft.	16 in.	72 gals.	**17.00**
4 ft.	20 in.	40 gals.	**10.75**
6 ft.	20 in.	60 gals.	**13.20**
8 ft.	20 in.	80 gals.	**15.20**
10 ft.	20 in.	100 gals.	**18.30**
12 ft.	20 in.	120 gals.	**20.25**

WROUGHT IRON HAY RACK

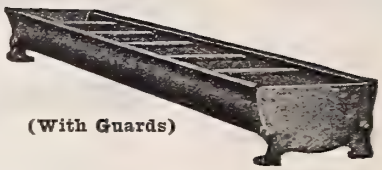
No. 12—Frame, 1 inch channel, 8 uprights, ½ inch round bar, exceptionally strong and heavy.
Price $4.00

No. 13—Frame, 1 inch channel, 6 uprights, ½ inch round bars.
Price $4.00

CAST IRON CORNER MANGERS

With Roll Front Food Guard.

No. 6—17 in. long, 17 in. wide, 10 in. deep **$4.00**
No. 7—18 in. long, 18 in. wide, 10 in. deep **4.50**
No. 7½—20 in. long, 20 in. wide, 10 in. deep **7.00**



(With Guards)

GALVANIZED HOG AND SHEEP TROUGHS

Length	Width	Capacity	Weight	Price
3 ft.	10 in.	6 gals.	30 lbs.	**$4.50**
4 ft.	10 in.	8 gals.	35 lbs.	**5.35**
5 ft.	10 in.	10 gals.	40 lbs.	**5.75**
6 ft.	10 in.	12 gals.	45 lbs.	**6.40**
8 ft.	10 in.	16 gals.	55 lbs.	**7.60**
10 ft.	10 in.	20 gals.	65 lbs.	**8.80**

HORSE MUZZLES

Well made and of good stout wire.

No. 18—Plain. List Price, dozen, **$1.20 Our Special Price, each, 10c.**

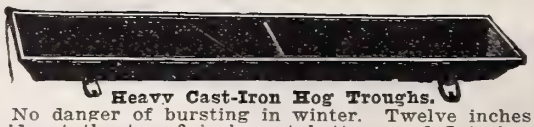
No. 16—Braced. List Price, dozen, **$2.00. Our Special Price, each, 15c.**

No. 14—Braced. List Price, dozen. **$2.50. Our Special Price, each, 20c.**

HEAVY HARNESS HOOKS

No. 1—Upper Hook projects 12 in., lower hook projects 5 in. Approximate weight 4 lbs.
Price .....$1.00.

No. 2—Extra Heavy, Upper Hook projects 12 in., lower hook projects 7 in. Approximate weight, 8½ lbs.
Price .....$1.75.



Heavy Cast-Iron Hog Troughs.

No danger of bursting in winter. Twelve inches wide at the top, 2 inches at bottom, and 7 inches deep. Made from 2 feet up to 12 feet.
Price ..... **$1.00 per foot**

ROTO SALTS

SALT CAKES, Each, 25c.

ROTO SALT HOLDERS, 50c.

THE EAGLE SLAW CUTTER

Slaw Cutter and Vegetable Slicer is the speediest, handiest and most serviceable cutter on the market for cutting Slaw, Kraut, Noodles, Cucumbers, Potatoes, Onions, Parsnips, Pie Plant, Beets, Bananas, Turnips, Vegetable Oysters, String Beans, Pineapples, Saratoga Chips, etc.

The cleanest, quickest and nicest way to prepare fruits and vegetables that require cutting is to use an "Eagle" Slaw Cutter and Vegetable Slicer.

PRICE $3.25

TURNTABLE APPLE PARER

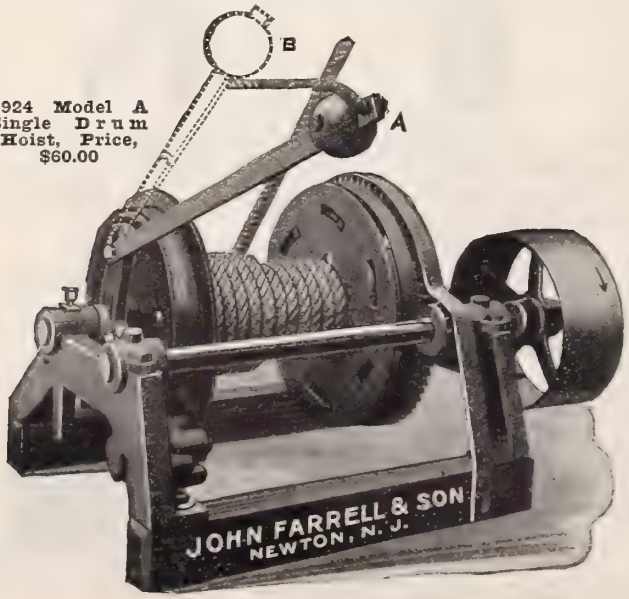
No. 1898

A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes, leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic.

Price, each $1.25
White Mountain Parer and Corer..... 1.00

1924 MODEL B DOUBLE DRUM HOIST

With Lever-Lock Brake, Price $70.00



1924 Model A Single Drum Hoist, Price, $60.00

THE H. & Z. CONCRETE MIXER

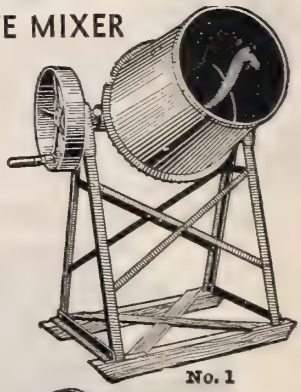
Saves Cement and Insures Better Concrete.

Eliminates Much Hard Work and Does a Better Job

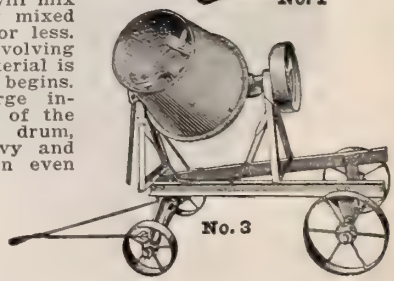
Hand mixing is a hard, back-breaking job, and because it is difficult it is often slighted—the concrete is poorly mixed, cracks, crumbles and goes to pieces. To insure a good job the concrete should be mixed with an H. & Z. Mixer—and that is the most economical way in the end.

A FAST WORKING MACHINE

The H. & Z. Mixer will mix a batch of thoroughly mixed concrete in a minute or less. The drum is always revolving and as soon as any material is put into it the mixing begins. The revolving discharge insures a quick pouring of the entire contents of the drum, throwing out the heavy and lighter materials in an even flow and not draining off the water and sand first as would be the case in a stationary discharge.



No. 1



No. 3

No. 1—2½ cu. ft. capacity.....
No. 3—3½ cu. ft. capacity.....
No. 4—3½ cu. ft. capacity with 1½ H. P. Engine....

BANNER ROOT CUTTER

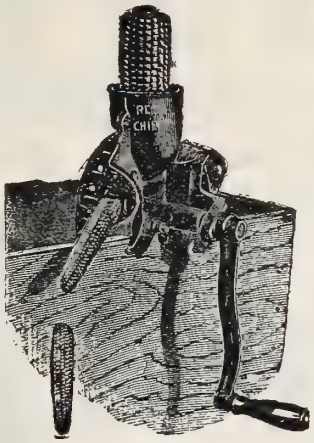
No. 7, for Poultry, price $9.00

No. 35—Banner Root Cutter

Heavy construction for hand or power; weight, complete, 185 pounds; capacity of hopper about 3 bushels.

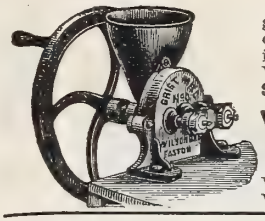
Price, with Pulley and Crank, $55.00

RED CHIEF CORN SHELLER



Price, each **$2.25**
Weight, 12 pounds.

WILSON NO. 0 FAMILY GRIST MILL



This mill is especially made for grinding Graham Flour or Cornmeal; can be adjusted for cracking grain if desired. Weight, 30 lbs., **$7.50.** With iron stand; weight, 65 lbs., **price $10.50.** Diameter of hand wheel, 20 in.

Wilson No. 1 Bone and Shell Mill

Weight, without stand, 33 lbs..**$7.50**
Weight, with stand, 68 lbs.....**10.50**

RED CHIEF MILLS

No. 1—For Small Poultry Raisers. **Price**.....**$3.50**

No. 2—Best Crank Mill on earth. Feed gauge to regulate grinding. **Price** **$5.00**

No. 5—With large capacity, feed gauge and fly wheel. Clamps to box. **Price**.....**$6.50**

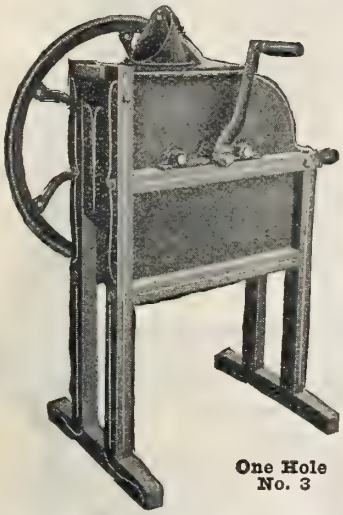
No. 10—With feed gauge, fly wheel and handsome stand to screw on table. **Price**.....**$8.50**

No. 10

Combined Hand and Power Mill

No. 20—Power Mill for two-horse engine; tight and loose pulley, best of bronze boxes and cold rolled steel axle, capacity 10 to 20 bushels per hour. Has no equal. **Price, $19.00.**

BUCH'S SHELLER

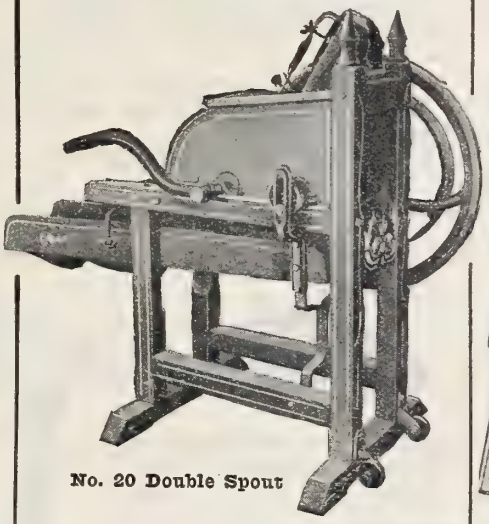


One Hole No. 3

Separates corn and cob. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity 125 bushels a day. Weighs 130 pounds. **Price** **$15.25**

OASIS PRESSES

THE BALTIMORE SHELLERS



No. 20 Double Spout

This sheller is built very strong from the best materials, and has a combination flywheel and pulley.

Hand and power, with shaker belt and flywheel. Capacity 200 bushels per day. Capacity by power, 500 to 600 bushels. Weight 300 pounds.

No. 20, with shaker, price.....**$34.25**

OASIS PRESSES

Guaranteed to be entirely satisfactory in execution, ease of operation, durability and finish. Made in 4 sizes.

	Size of Tub	Capacity	Price
No. 101	11½x11¼	½ bu.	**$10.00**
No. 202	14¼x12¼	¾ bu.	**13.00**
No. 303	17¾x15½	1½ bu.	**23.00**
No. 404	23¼x20	3½ bu.	**33.50**

All Furnished with Hinged Tub.

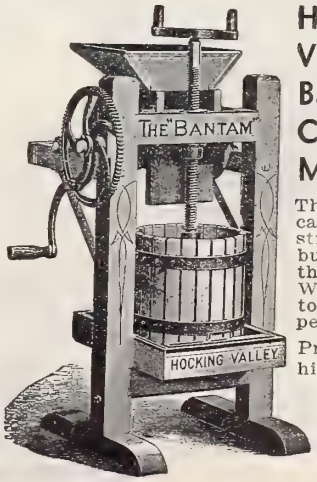
WAGNERS FRUIT & LARD PRESS

	Our Price
4-Quart	**$6.50**
6-Quart	**8.00**
8-Quart	**8.50**
Stuffing Attachment	**1.50**

HOCKING VALLEY DOUBLE CAGE MILL

Best and strongest built. Adjustable for all sizes of apples. All have hinged tubs and iron roller.

Junior—2 to 4 barrels per day....**$30.00**
Medium—4 to 6 barrels per day... **34.00**
Senior—6 to 8 barrels per day.... **50.00**
Pulley extra **2.50**



Hocking Valley Bantam Cider Mill

This single cage mill is strongly built throughout. Will grind 1 to 2 barrels per day.

Price, with hinged tub, **$22.00**

G. & T. BOILER AND FEED COOKER

Unusual Rating	Actual Capacity	Diameter of Furnace	Shipping Weight	Price Furnace with Kettle	Price Furnaces only	Price Scalding Kettles only
No. 3—30 gallons	24¼ gallons	26 inches	160 pounds	$23.00	$11.50	$13.00
No. 4—35 gallons	30 gallons	28½ inches	190 pounds	26.00	12.25	15.00
No. 5—40 gallons	37 gallons	29½ inches	200 pounds	30.00	13.00	18.00
No. 6—50 gallons	45 gallons	31½ inches	258 pounds	34.00	13.75	22.00
No. 7—55 gallons	52 gallons	32 inches	280 pounds	36.50	15.00	24.50

We always ship furnaces without firepot for coal unless otherwise specified. For wood fuel no firepot or grate is required, but for coal it is necessary to use firepot. **Firepot, Price, $7.85. Grate, $1.25, f.o.b. factory.**

IRON KETTLES WITH BAILS

	Capacity	Price
No. 4	15 gals.	$5.50
No. 5	20 gals.	6.50
No. 6	25 gals.	8.50
No. 7	30 gals.	10.25

FARMERS FAVORITE

FEED COOKER AND AGRICULTURAL BOILER

Heating water for scalding hogs and poultry, Rendering Lard and Tallow, Boiling Sorghum, Heating Drinking Water for Stock.

No.	Capacity	Size Boiler Fire Box		Price
2	30 gal.	22x24x13½	24 in.	$21.00
3	40 gal.	22x30x14	30 in.	23.50
4	50 gal.	22x36x15	36 in.	26.00
6	100 gal.	22x60x17	60 in.	33.00

Top Plates With Holes for Kettles

No. 2 Cooker $3.75 — No. 4 Cooker $5.30
No. 3 Cooker 4.50 — No. 6 Cooker 8.15

Grates and Linings

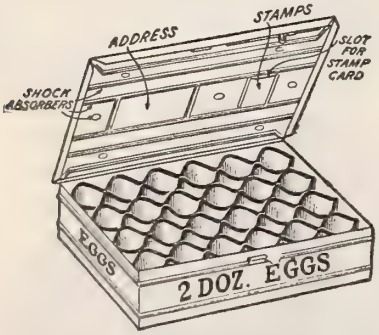
For burning hard or soft coal or coke ____ $10.00

MANN'S GREEN BONE CUTTER

No. 5C—With Crank Handle. Wt., 35 lbs ____ $12.00
No. 5B—With Balance Wheel. Wt. 45 lbs. ____ 15.00
No. 7—With Balance Wheels. For flocks of 100 hens ____ 19.75
No. 9—With Balance Wheel. For flocks of 300 hens ____ 30.00

Larger Sizes, Price on Application

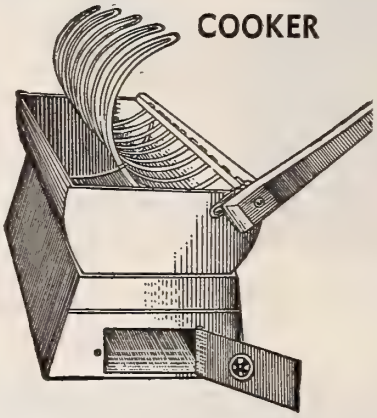
PARCEL POST NEW MODEL METAL EGG CRATE



The new patented Filler made of cardboard, circular in shape (like an egg) and reinforced with Metal Edges to insure strength, yet retain lightness in weight, is a wonder for safety and durability.

1 Dozen Egg Size ____ $1.00
2 Dozen Egg Size ____ 1.50
3 Dozen Egg Size ____ 1.75
4 Dozen Egg Size ____ 2.00

STEEL HOG SCALDER AND COOKER



Plain Scalder does very well if placed over a ditch and fire built underneath, but most farmers prefer rack and fire-box complete. Shipping weight, 425 pounds.

Plain Scalder, 6 ft. by 30 in. by 18 in. deep. **Price, $25.00.**

Fire-box with 5-inch pipe hole. **Price, $15.00.**

Dumping Rack with lever. **Price, $15.00.**

Scalder complete. **Price, $55.00.**

CRYSTAL METAL FARM BELLS

Prices, including hangings, complete:
Bronzed

No.	Weight Complete	Diameter of Bell	Price
1.	40 lbs.	15 in.	$5.00
2.	50 lbs.	17 in.	6.00
3.	75 lbs.	19 in.	10.00
4.	100 lbs.	21 in.	12.50

No. 4 Bell has a stand instead of yoke.

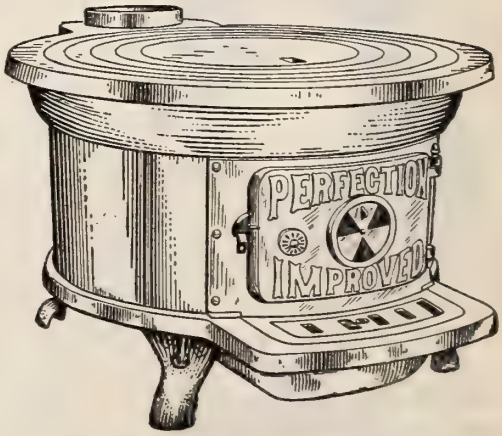
HUSKING PINS

No. 7-Y—With cot more open between the fingers. Grain leather ____ 25c

No. 100-Y—Cold rolled steel, 4½ inches, nickel-pated pin, with split leather shield and double compartment, adjustable finger strap ____ 15c

No. 00-X—Clark's "Hickory" Pin, 4½ inches long, made of best cold rolled steel, with one compartment ____ 10c

IMPROVED KETTLE RANGE



This Kettle Range is made to accommodate any kettle a farmer may happen to have. Any copper or iron kettle up to 40-gallon capacity can be used.

The largest opening, when all the rings are off, is 25 inches, and the smallest is 12 inches.

Pipe opening for 6-inch pipe. Weight 200 lbs. ____ $50.00

BOXES FOR FRESH EGGS

FOR MARKET TRADE

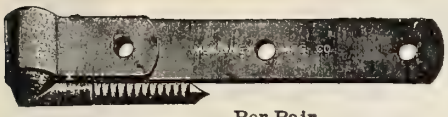
This is not a Parcel Post or Express Box, but is intended for counter and private use. Any one selling eggs will find this box a great convenience, as it obviates any mistakes in the count and also avoids any breakage.

Delaware Egg Boxes, two rows for 12 eggs, per 100 ____ $1.20
Eagle Egg Boxes, three rows for 12 eggs, per 100 ____ .65

(Special Prices in Quantities)

STRAP HINGES

	Light Pair	Heavy Pair
4-in.		.15
6-in.	.16	.20
8-in.	.20	.30
10-in.	.40	.50
12-in.	.55	1.00

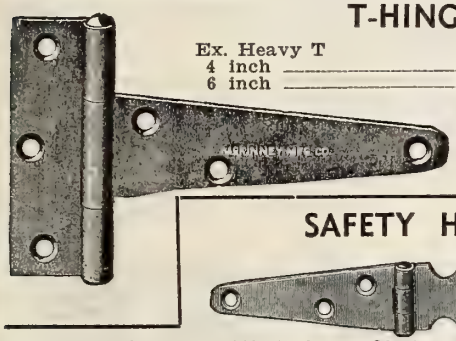


SCREW HINGES

	Per Pair		Per-Pair
6 in.	$0.25	18 in.	$0.85
12 in.	.45	20 in.	.90
14 in.	.65	24 in.	1.20
16 in.	.75	30 in.	1.65

36 in., $1.85 per pair.

T-HINGES

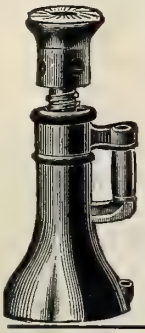


Ex. Heavy T	Per Pair
4 inch	$0.20
6 inch	.25
8 inch	.40
10 inch	.55
12 inch	1.10

SAFETY HASPS

3 inch $0.10 — 4½ inch $0.12 — 6 inch $0.18

BELL BOTTOM JACK SCREWS



These Jack Screws have cast-iron stands with forged head screws. For workmanship and durability they cannot be excelled.

Diam. Screw	Height Stand	Height Over All	Our Special Price
1½ in.	12 in.	15 in.	$3.50
1½ in.	14 in.	17 in.	4.00
2 in.	10 in.	14 in.	4.50
2 in.	12 in.	16 in.	5.00
2 in.	14 in.	18 in.	5.50
2 in.	16 in.	20 in.	6.00
2 in.	18 in.	22 in.	6.50

Capacity 1½-in. diameter screw, 10 tons.
Capacity 2-in. diameter screw, 12 tons.

Other sizes. Prices on Application.

IMPROVED SAMPSON JACK

MALLEABLE IRON

Best Jack on the market. Can be used for any height axle. No breaking of cogs and standards.

No. 1—Will raise 2 tons $5.00
No. 2—Will raise 5 tons 6.25
No. 3—Will raise 5 tons, with drop hook 7.25

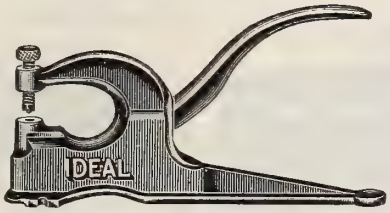
IDEAL RIVETING MACHINE

This is the best lowest-priced **Riveting Machine** made. Warranted to set Tubular Rivets perfectly.

Price 85c

Tubular Rivets

100 ..... 15c



ICE HOOKS

No. I H 6—6-ft. Handle, Strapped Ferrule $1.00
No. I H 7—7-ft. Handle, Strapped Ferrule 1.25
No. I H 8—8-ft. Handle, Strapped Ferrule 1.50

MACHINISTS' KNIFE HANDLE WRENCHES

6 in. $1.00, 8 in. $1.20, 10 in. $1.40, 12 in. $1.80, 15 in. $2.55.

STILLSON WRENCHES

Size	Grips	Retail	Size	Grips	Retail
6 in.	½ pipe	$0.75	18 in.	2 pipe	1.50
8 in.	¾ pipe	.85	24 in.	2½ pipe	2.25
10 in.	1 pipe	.90	36 in.	3½ pipe	5.00
14 in.	1½ pipe	1.10			

TWIN WRENCHES

Twin, 10 in. long, **75c.** each.

COLD CHISEL — PUNCH

	½ in.	⅝ in.
Retail price, each	$0.20	$0.25

FILES

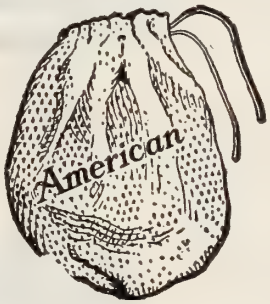
8-in.	Mill Bastard	.20
10-in.	Mill Bastard	.30
12-in.	Mill Bastard	.40
8-in.	Cross Cut	.40
10-in.	Cross Cut	.50

SCREW DRIVERS

No. 903	4-in. Blade	.40
No. 904	6-in. Blade	.45
No. 905	9-in. Blade	.50

8-in. **BUTTON PLIERS**, per pair 75c

AMERICAN MANTLES



Price, per dozen $1.00

READY-LITE GENERATORS

Generators with Automatic Cleaner, each 50c

AUTOMOBILE JACKS

This Jack is made from best quality refined malleable iron, with high-grade Steel Screw, aluminum finish, and by single turn of the pawl raises or lowers. It is compact, neat and has sufficient strength to raise any automobile made.

No.	Capacity Pounds	Height Lowered Inches	Raises Inches	Wgt. Lbs.	Price Each
1...	2000	10	6	5	$1.50
2...	5000	10	6	8	3.00

CROWBARS

Crowbars with Pinch Point, from 20 to 25 lbs., per lb., **10c.**
Crowbars with Wedge Point, from 20 to 25 lbs., per lb., **10c.**
Digging Bar with Rammer combined, each, **$2.50.**
Digging Bar with Loop Handle, each, **$2.50.**

WEDGES

Strong steel wedges for splitting wood, have the right taper and will stick in the wood.
Weight from three to six pounds.
Price, per pound ..... 10c.

HAMES

Virginia Cart Hames $2.25
Baltimore Strap Hames 2.25
No. 1 Hame, Light 1.25

TUG CHAINS

Cart Tug Chains, 18-10-1, per pair 50c

REGULAR IRON TRACE CHAINS

7-8-2, pair $0.75
7-10-2, pair ..... .80
Add for hook in place of ring ..... .05

SPREADER CHAINS

⅝ Close Link Straight Spreader Chain for two horses, with three hooks each, our special price $2.00

BUTT CHAINS

Retail
3 ft.—3-2, per pair 75c
3 ft.—10-2, per pair 80c

LOG CHAINS

Long Link Log or Ox Chain, 5/16 in., 12 or 14 ft., retail price, lb. 15c
Long Link Log or Ox Chain, ⅜ in., 12 or 14 ft., retail price, lb. 15c
Long Link Log or Ox Chain, ½ in., 12 or 14 ft., retail price, lb. 15c

BREAST CHAINS

Single Slack

27 in. 5/16 to ¼ Taper Slack $0.75
27 in. ⅜ to 5/16 Taper Slack 1.00
28 in. Double Slack, pair, heavy 1.00

COW CHAINS

No. 3-0—Bulldog Cow Tie (Ohio pat.), each $0.35
No. 3-0—4½-ft. Halter, each ..... .45
6-ft. ..... .50
No. 0 —20-ft. Chain, each ..... .45
No. 00 —20-ft. Chain, each ..... .55
No. 000—20-ft. Chain, each ..... .60
No. 0 —30-ft. Chain, each ..... .65
No. 00 —30-ft. Chain, each ..... .75
No. 000—30-ft. Chain, each ..... .80

LAP LINKS

Open Side Lap Links, polished—
½x2½ $0.10
⅝x3 ..... .15
¾x3 ..... .20

CHAIN REPAIR LINKS

Chain Repair Links, ¼ or 10-2, doz. $0.20
9-32, or 10-1, doz. ..... .25
Assorted links, per box ..... .30

SWEAT PADS

Feltless

Pinked, Felt Edges, Composite Filling, Four Hooks.

Old Gold Drill; best on the market.

18 to 20 in. 50c
21 to 22 in. 55c
23 to 24 in. 60c

FOLDED DUCK BACK BANDS

With Hooks
No. 25—5 in., 42 in. long $0.50
No. 35—5 in., 42 in. long ..... .60
No. 50—5 in., 42 in. long (heavy) ..... .75
44 inch bands, add ..... .05
48 inch bands, add ..... .15

BACK BAND HOOKS

3½ in. $0.20
4 in. ..... .25
5 in. ..... .25

HAME STRINGS—Black

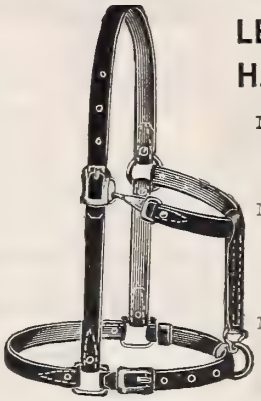
⅝x42 in. slit, each $0.15
¾x42 in. slit, each ..... .20

Rawhide

⅝x84 in. slit, each $0.25

HAME STRAPS

1 in. sewed $0.40
1⅛ in. riveted ..... .30

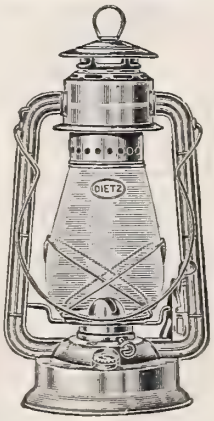


LEATHER HALTERS

No. 40—1¼ in. Hrg. leather, each ... $2.00
No. 21—1¼ in. double stitched, each ... $2.25
No. 90 — ⅞ in. Colt Halter, each ... $1.75

COW HALTERS

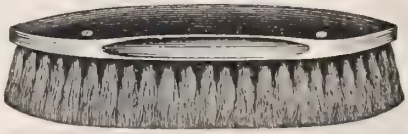
Price, each $1.50
Calf Halters, each 1.00



DIETZ LANTERNS

No. 2 Dietz Blizzard, price $1.40
Junior Wagon Lantern, price $1.90
Eureka Driving Lantern, price $2.00
No. 0 Victor, price 90c

DANDY BRUSHES



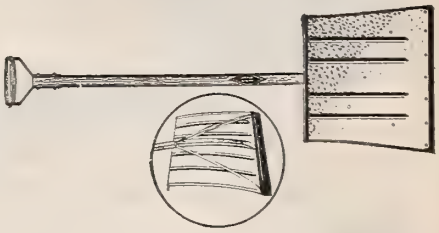
Price
No. 985—Oval Brush, each $0.60
No. 940—Palmetto Dandy, each ..... .45
No. 950—Palmetto Dandy, each ..... .50
Leather Back Bristle Army Brush, each 1.00

SNOW SCRAPERS

Snow Scraper Blades made of high carbon steel. Will wear a long time. **Castings** of best malleable iron fastened to blades and handle. **Handles** of ash, tough, strong and smoothed. All metal parts given a coat of black paint.

18-inch Kohler Scraper $1.00
24-inch wide 1.25

GALVANIZED SNOW SHOVEL



017—Ribbed Galvanized, Blade 17x16 ..... $1.15
021—Ribbed Galvanized, Blade 21x16 ..... 1.30

CURRY COMBS

No. 167—All steel, closed back, 6 bars, our special price, each 25c
No. 083—Open Back Curry Comb, our special price, each 20c

No. 167

All-Steel Closed Back

No. 800

No. 800—All steel, closed back, lacquered, extra size, oval face, curved knockers, braced shank, extending through handle and riveted, enameled handle, brass ferrule, 8 bars, our special price, each 30c

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TELEPHONE CALVERT 2300

GRIFFITH & TURNER COMPANY

FARM and GARDEN SUPPLIES

Seed, Bulbs, Farm Implements and Wagons

Principal Office and Store
205-215 N. Paca Street

Branch House
338 N. Gay St. at High

Poultry, Greenhouse and Dairy Supplies
Fertilizers

BALTIMORE, MARYLAND

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Name _____

Post Office _____

Shipping Point _____

Ship By _____

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POSTA-GRAPH
REG. U.S. PATENT OFFICE
MADE BY THE POSTAGRAPH CO., BALTO., MD.

Etoile de Hollande

President Herbert Hoover

Kaiserin Auguste Viktoria

Talisman

DIAMOND JUBILEE ROSES

Five Everblooming Roses for $2

(DORMANT STOCK)

One each of the following 5 varieties:

Etoile de Hollande **Radiance**
Kaiserin Auguste Viktoria **Talisman**
President Herbert Hoover

Radiance

All our Roses are strong, budded, two-year-old, field-grown plants. Varieties marked * can be supplied in dormant stock from March 15 to May 1. All varieties listed can be furnished in full leaf, growing in 6-inch clay pots, after May 1. Our dormant Roses are all wrapped with damp moss and burlap. We do not offer "processed" or "preplanted" Roses.

Price, Dormant Stock, 50 cts. each; $5.50 per doz. Potted Stock, unless otherwise noted, 75 cts. each; $7.50 per doz.

Hybrid Tea Roses

***Autumn.** Burnt-orange, marked with red. 85 cts. each; $8.50 per doz.
***Betty Uprichard.** Salmon-pink, coppery sheen. 85 cts. each; $8.50 per doz.
Briarcliff. Brilliant rose-pink, shading lighter. 85 cts. each; $8.50 per doz.
Caledonia. The best white. Long-pointed bud. 85 cts. each; $8.50 per doz.
Charles P. Kilham. Brilliant pink flushed red-orange. 85 cts. each; $8.50 per doz.
***Columbia.** Pleasing shade of rose-pink.
Cuba. Vermilion-scarlet, suffused orange. 85 cts. each; $8.50 per doz.
Dame Edith Helen. Brilliant rose-pink. 85 cts. each; $8.50 per doz.
Duchess of Atholl. Orange, flushed old-rose. 85 cts. each; $8.50 per doz.
***Duchess of Wellington.** Saffron-yellow, stained deep crimson. Pointed bud.
***E. G. Hill.** Dazzling scarlet. Pointed bud.
***Etoile de Hollande.** Brilliant crimson.
***Feu Joseph Looymans.** Bright yellow.
Golden Dawn. Lemon-yellow, splashed with crimson. $1 each; $10 per doz.
Gruss an Teplitz. Rich velvety crimson.
***Hadley.** Dazzling crimson-scarlet.
***Kaiserin Auguste Viktoria.** Pure white.
***Lady Margaret Stewart.** Deep yellow, and orange. 85 cts. each; $8.50 per doz.
***Los Angeles.** Flame-pink, toned coral. 85 cts. each; $8.50 per doz.
***Lucie Marie.** Deep yellow, splashed red. 85 cts. each; $8.50 per doz.
***Margaret McGredy.** Brick red.
McGredy's Scarlet. Brilliant scarlet, orange-yellow at base of petals.
***Mevrouw G. A. van Rossem.** Vivid orange and apricot. $1 each; $10 per doz.
***Mme. Edouard Herriot.** Coral-red.

HARDY ROSES

Mme. Nicolas Aussel. Bright coppery salmon-pink. $1 each; $10 per doz.
Mrs. Aaron Ward. Deep yellow, shading lighter. 85 cts. each; $8.50 per doz.
Mrs. A. R. Barraclough. Bright carmine-pink. 85 cts. each; $8.50 per doz.
***Mrs. E. P. Thom.** Rich lemon-yellow.
Mrs. Henry Bowles. Bright pink, with salmon. 85 cts. each; $8.50 per doz.
Mrs. J. D. Eisele. Plant Patent No. 67. Cherry-rose. $1.50 each; $15 per doz.
***Olympiad.** Dark Oriental scarlet. Long-pointed bud. 85 cts. each; $8.50 per doz.
***Ophelia.** Salmon-pink, shaded light yellow. 85 cts. each; $8.50 per doz.
***President Herbert Hoover.** A combination of pink, flame, scarlet, and yellow.
Padre. Coppery scarlet, flushed yellow at base. 85 cts. each; $8.50 per doz.
***Radiance.** Bright carmine-pink.
***Red Radiance.** Bright cerise-red.
Schwabenland. Very large flower of rich rose-pink. $1 each; $10 per doz.
Sensation. Crimson-scarlet. Long-pointed bud. 85 cts. each; $8.50 per doz.
***Souvenir de Claudius Pernet.** Rich yellow. Long-pointed bud.
***Talisman.** Combination of apricot, gold and deep rose-pink. Pointed bud.
Vaterland. Rich deep velvety scarlet-maroon. 85 cts. each; $8.50 per doz.
***Ville de Paris.** Pure rich buttercup-yellow. 85 cts. each; $8.50 per doz.
Wilhelm Kordes. Rich red, suffused copper. 85 cts. each; $8.50 per doz.
W. E. Chaplin. Deep crimson, shading to carmine. 85 cts. each; $8.50 per doz.

New Hybrid Tea Roses for 1935

NIGRETTE (The Black Rose). Plant Patent No. 87. First blooms in early summer are crimson, but in late summer the buds are black, opening to deep maroon, resembling black velvet. **$2 each.**

CRIMSON GLORY. Plant Patent No. 105. Crimson, shaded ox-blood-red. **$1.50 each.**

BETTER TIMES. Plant Patent No. 23. Brilliant cerise-red flowers, delicately fragrant. **$1.50 each.**

Hardy Climbing Roses

Blaze. Plant Patent No. 10. The new everblooming vivid scarlet climber. $1.50 each; $15 per doz.
***Dr. W. Van Fleet.** Rich flesh-pink.
***Emily Gray.** Light orange-yellow.
Golden Climber (Mrs. Arthur Curtiss James). Plant Patent No. 28. Golden yellow blooms. $2 each; $20 per doz.
Jacotte. Deep orange-yellow, tinted red.
***Mme. Gregoire Staechelin.** Pearly pink tipped crimson. $1 each; $10 per doz.
***Paul's Scarlet Climber.** A vivid scarlet which does not fade.
Silver Moon. Large creamy white.
The New Dawn (Everblooming Dr. W. Van Fleet). Plant Patent No. 1. Flesh-pink blooms throughout the summer and fall. $1.50 each; $15 per doz.

Polyantha or Baby Roses

Compact plants producing trusses of small flowers from early June until frost.

Cecile Brunner (Sweetheart Rose). Soft rosy pink.
Gloria Mundi. Brilliant orange-scarlet.
Magnifique. Clear shell-pink.
Salmon Spray. Rich salmon-pink.
Scarlet Button. Intense brilliant scarlet.

Any of above Polyanthas, 85 cts. each; $8.50 per doz.

Shrub Roses

Valuable as individual specimens, among shrubs, or as an everblooming hedge. Perfectly hardy.

Pink Grootendorst. Clear pink.
F. J. Grootendorst. Bright crimson.

Any of above Shrub Roses in 6-inch pots, 85 cts. each; $8.50 per doz.

Moss Roses

Characterized by the mossy buds.

Blanche Moreau. Large; pure white.
Crested Moss. Rose-pink.
Henri Martin. Crimson.

Any of above Moss Roses in 6-inch pots, 85 cts. each; $8.50 per doz.

Keep your Roses growing vigorously with our Special Rose Food. Also helps to control root-pests

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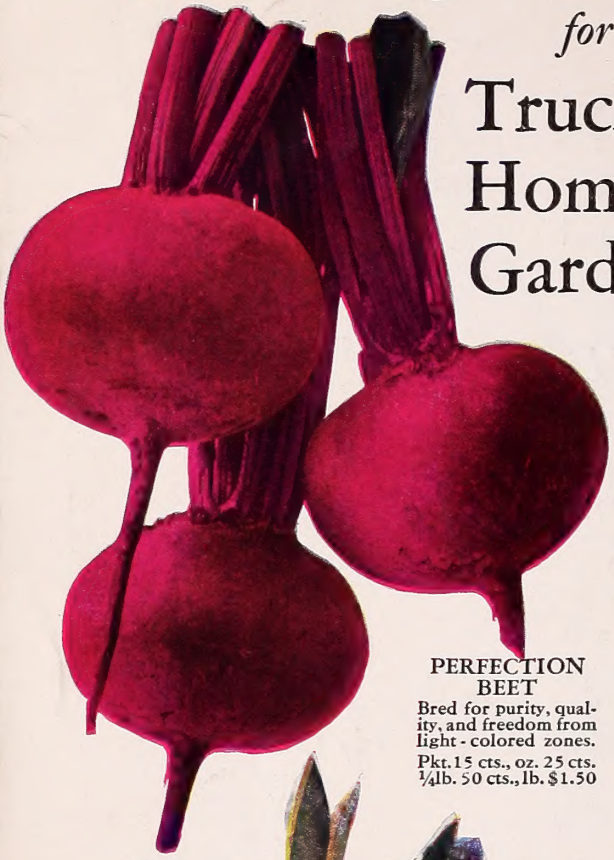

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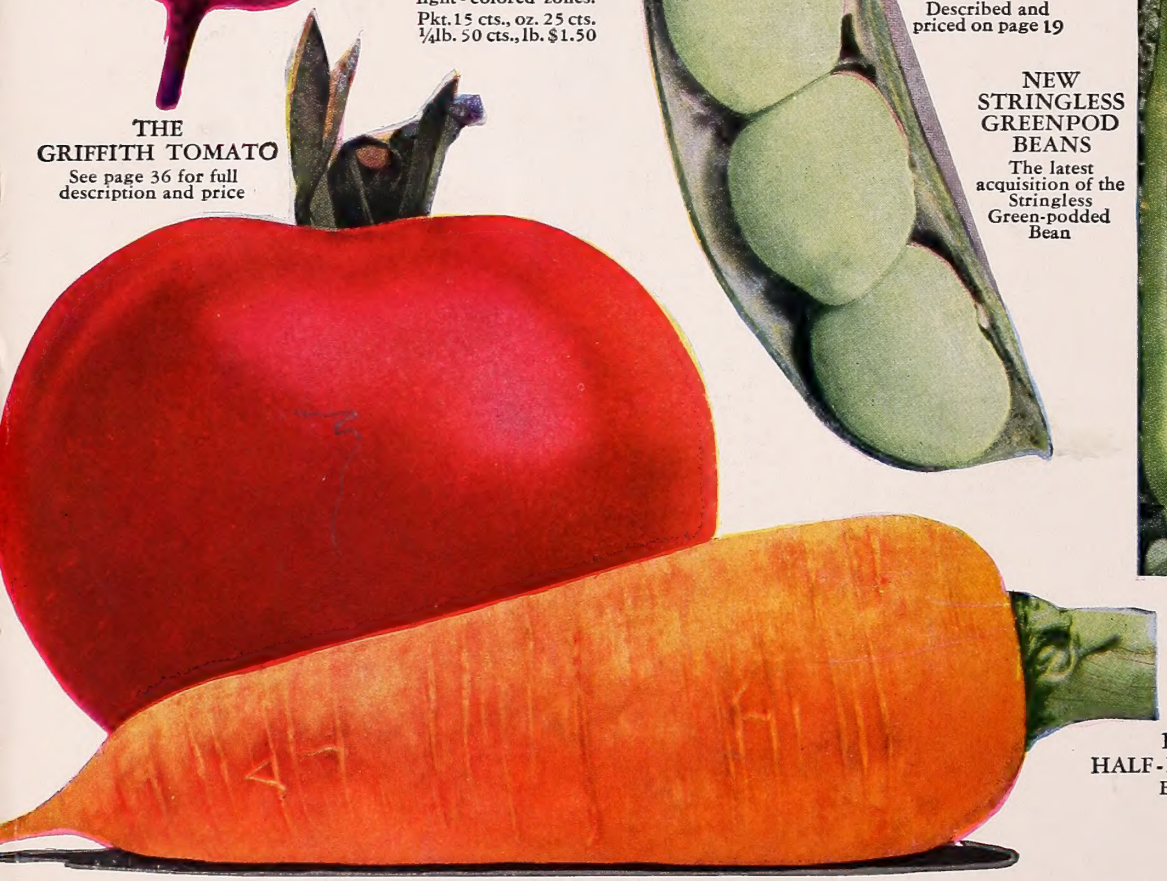
NEW STRINGLESS GREENPOD BEANS
The latest acquisition of the Stringless Green-podded Bean



THE GRIFFITH TOMATO
See page 36 for full description and price

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